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gccacagcag	tttgtcttta	atagatatgt	gocctatactc	atgtaatcgt	ttactcacta	2040
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<210> 25
<211> 683
<212> DNA
<213> Homo sapiens
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<210> 26
<211> 2036
<212> DNA
<213> Homo sapiens
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```
<220>
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<222> (2028)
<223> n equals a,t,g, or c
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<220>
<221> SITE
<222> (2033)
<223> n equals a,t,g, or c
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tattcagaaa	acagatttgg	aacacacatc	cattctgcgtg	aatctctttaa	aaggagaagg	120
acgttaacgt	atctgcacat	ctgaattttc	atttatctct	tcactgaata	tgaataacat	180
agcttatcgt	tatttagaga	tattatttgg	gatatttctc	ttattaactct	gcgtgtgctg	240
gtaacatgat	taaaagctctg	tattataata	aacataattc	ttttttttaa	gaagaaaagg	300
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<210> 28
<211> 495
<212> DNA
<213> Homo sapiens

<400> 28
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aactgaactg	tgtttttcat	aggtaaatga	gagactgagt	tttttcattt	ctgaagagaa	180
agggcatttg	ctctacaag	ctgaaaaggca	ccctgggtg	gctggggccc	tcgtgggagt	240
ttctggggga	tggaccctta	caacatgcag	tggccctaca	gaaaaacctg	caactaaaaa	300
ttatttttta	aaaaggctcc	tccaggaaat	gcataatagg	gctaatacgc	cagtattttg	360
argcttcgaa	gargtaatar	amccctggag	agagaaaactg	agacatgtaa	gagggtggga	420
atgactcagt	ggtggcacac	tatggagtcc	tgcccaaacg	tagcacacat	caaccacta	480
cacagaaatc	ctagg					495

<210> 29  
 <211> 556  
 <212> DNA  
 <213> Homo sapiens

<400> 29	
agcttaacgt	catgattcat
gacacctctt	agaagagctg
ggcactgggt	ctctctctgt
cagtttagctg	gacatcacgt
aatagaaaagc	aggcagatct
ccacatgtcc	acaaaacaagt
gtcaagagtc	cccacactca
acacatgtga	cattctggac
gactgtctgag	aaggggaaacg
gagatgtgac	ctcaaa

<210> 30  
 <211> 434  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (347)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (363)  
 <223> n equals a,t,g, or c

<400> 30	
ctaaaatgggtg	actgtggctt
gocacagaatg	aggagacatg
actttctcttc	caagctattt
cattaaaacca	atattgtataa
gagtaattctt	acatcagcat
acatgttttbg	tatacataaa
ttnatctccc	tatgtatat
tatgaatagt	gaga

<210> 31  
 <211> 715  
 <212> DNA  
 <213> Homo sapiens

00662174-061601

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<400> 31
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atgactatct ccaaaaatgca cctcctggat tttttccgag acttgggtgtt attggtttttg      180
ctggccttat tggactcctt ttggcttagag gttcaaaaat aaagaagcta gtgtatccgc      240
ctgggtttcat gggattagct gctcctcctct attatccaca acaagccatc gtgtttgccc      300
aggctcagtg ggagagatta tatgactggg gtttacgagg atatatagtc atagaagatt      360
tgttgaagga gaacttttcaa aagccaggaa atgtgaagaa ttcacctgga actaagtaga      420
aaactccatg ctctgccaatc ttaatcagtt ataggtaaac attggaactc ctagaataaa      480
atcagratatt ctacagaaaa atggcataga agtcagtatc gaatgtatta aattggcttt      540
cttcttcagg aaaaactaga ccagacctct gttatcttct gtgaaatcat cctacaagca      600
aactaacctg gaatcccttc acctagagat aatgtacaag ccttagaact cctcatcttc      660
atgttgctat ttatgtacct aattaaaaac caagttaaaa aaaaaaaaaa aaaaa      715

```

```

<210> 32
<211> 486
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> SITE
<222> (374)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (422)
<223> n equals a,t,g, or c

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<220>
<221> SITE
<222> (442)
<223> n equals a,t,g, or c

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<220>
<221> SITE
<222> (474)
<223> n equals a,t,g, or c

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<400> 32
gagccagtcg cggcgaaaag ggaccttcct ctacttcctg ccacagaccc tgtccccaca      60
caacttcctgc cctgctctg ctgggaggcc acttcctccc ccagtgtctg attccacccc      120
cagctccacc tcaaaacatg cccctctctc cctcctgctt gccctctctt gctcccttga      180
ggctgttctg tctctccctc ttgaaaagca atgccagctt cctgggatct tctgccaact      240
ccagctacca tgccctttgc tcctgtcagg tcagctcttc aagggaaatt cctamcctcg      300
gtgtcctgct tcctctctc aaactctctc cctgcttcca agctggcatc tgccctcca      360
ctgcacagaa cggntccccc accactgccc ttacagagga ggaagcagca acatggaaga      420
ancgaactat agggggtaca angatgctca gctctgatcc cgaaggcaaa aagnatcttt      480
gggcac

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<210> 33
<211> 725
<212> DNA
<213> Homo sapiens

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<400> 33

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09862171.061801



<222> (333)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (347)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (354)  
<223> n equals a,t,g, or c

<220>  
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<222> (563)  
<223> n equals a,t,g, or c

<220>  
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<222> (584)  
<223> n equals a,t,g, or c

<220>  
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<222> (606)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (628)  
<223> n equals a,t,g, or c

<220>  
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<222> (630)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (637)  
<223> n equals a,t,g, or c

<220>  
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<222> (640)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (652)  
<223> n equals a,t,g, or c

<220>  
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<222> (655)  
<223> n equals a,t,g, or c

09882371.061801



<220>  
<221> SITE  
<222> (673)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (692)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (708)  
<223> n equals a,t,g, or c

<220>  
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<222> (713)  
<223> n equals a,t,g, or c

<220>  
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<222> (721)  
<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (735)  
<223> n equals a,t,g, or c

<220>  
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<222> (739)  
<223> n equals a,t,g, or c

<220>  
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<222> (769)  
<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (804)

0000171 06400000

<210> 36  
<211> 604

<212> DNA  
<213> Homo sapiens

<400> 36  
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gaatcctatg tctcgcggtg aggggggttg ttttcaatgt tcttgctaatt tttttttcra 120  
ttggatcttg ggagttttct tgggttgctc ctgtgttttg ccagctcttaa taaaaccagg 180  
cgcaaacaaa aaccatagca ttctgaacaa tagggggccc acattggacc cagtattgtca 240  
ctttaatgga cttcaagaaa aaatctgaat gggaaaaatg acactaggaa tgtatactcc 300  
acacatttta tggcatataa tgggtgtggt tcttaatttt gtttcttgtg gcgaaatgtg 360  
gctttcaaat taaaatgacc ttttcttctt tgaaactttt tgttttgact tgtataatta 420  
aggggtttgga aagattcata attctgagag aggtttgcga ccaggagata caaagaagtc 480  
tcagtagtaa tcttgttcat gtgcttttac agccagctac atttaaggat gtattagtta 540  
cagaaattat atgtctgtgt atgtgtctct actcaataaa gtacatgcct ccacaaaaaa 600  
aaaa 604

<210> 37  
<211> 349  
<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (329)  
<223> n equals a,t,g, or c

<400> 37  
gtgagtgcctt gggagccccc agggccctgcc cctaagaagg atatctytra ccgtcccttt 60  
gtccacacccc taacccccca gctgctcagg cagtgggcac atggcagggg cctcactggg 120  
ggcacataga gcattttgggg gactgcgagt gctcaccttt gaacttctgc aggtcggggg 180  
aaaaccagat catgatgacc aaagtytaca tattcttgat ctctcatggtg ctgatccctgc 240  
cctccctggg tctcaccagg tatatgccac cacyttctgy tctaaattgc gaataagagt 300  
cacatcagga gagcactgtc cccagganaa tgcaaacggg ttggcagca 349

<210> 38  
<211> 672  
<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (353)  
<223> n equals a,t,g, or c

<400> 38  
gtagtcgttg cggttgcccg gatggcgaag atctcgccgt ttgaagctgt aaaacgcacc 60  
tcggtaccgg tgcttgttgg tttgggtgatt gtwatcgctg ctacagagct gatggtgcga 120  
ggaaacggcag caggcggtcac agggcaagtaa atagtaattgc cggagcaagt ttccctcggc 180  
tttatcatgt caccactgtt ggtatagctg ttgtggtctg coaactttgc cgtgaacaat 240  
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agggcaacggg cttaatgaga taatcaataa caccacaaag tacggcttca gacacggtt 600  
ccatatcgct ggctgcagtg gtaaacacca cgtcgccggg ataattgcgc tgcaccagtt 660

catgcagtaa at

672

<210> 39  
 <211> 1908  
 <212> DNA  
 <213> Homo sapiens  
 <220>  
 <221> SITE  
 <222> (62)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (63)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1893)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1908)  
 <223> n equals a,t,g, or c

<400> 39  
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 cagggtataaa aacatttgctt ttgttgaatt gtatagggtg aaaaagggaa taactgtatg 180  
 cagggtttgaa aaggaaaatgt gcttttaggca tgagtcataa gatgccattg tacttgttagg 240  
 cattttatttt tcttttagaa atggacatca gctcttcctt tctgactcgtt aacacatagc 300  
 cccaaaagcat gagattattt ttcattgggt ttttatgtgt gtttagtttt ggtttgttac 360  
 gccagccagc tctgtctcgc gaacactgac tctgctctct aatgagaaca aagttagaaa 420  
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 tctcgttacg atttgggttg gaagagcctc ttgtttcctt ctctttgggg tatgtcttcg 600  
 ttctctaata tgtttgttaac attattgaga tataattcac ataccttaca attcaattat 660  
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 actcaactaa taaccaggga accagccaaa tactgtgcag cgcagagata tgcataatca 1620  
 tgagttggag gtgattatct tctgtaactc cctaatgatt gttttccaag catctgtgct 1680  
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0966774 011901

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<210> 40  
 <211> 458  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (16)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (443)  
 <223> n equals a,t,g, or c

<400> 40

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ggcataaaaga	gaacaaaaag	acaatgatgg	tatttctctg	gtccctcagct	ttggcactttt	180
tggtgatgtt	gctaaggagc	agtgaacctg	ctaaaaagac	tgaataatcc	accactgaa	240
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caccaggccc	tcccagaacc	tcctcagttc	cttcacagtg	caacctctgtg	tacttggccc	360
gcaacccaat	agtattgtgc	ctcacttcac	cttccatggg	caactgcctt	cccttctgga	420
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<210> 41  
 <211> 1153  
 <212> DNA  
 <213> Homo sapiens

<400> 41

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ctgtgcggcg	gtggggcatcc	cccggggcag	tggaaacccgg	gcgctccctcc	agcttccgag	180
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atccgtgctc	caaacctctac	actcaaggat	gcactgcgca	actctggtgg	cgatgggctg	420
gggcagatgt	ccttggagtt	ctaccagaag	aagaagctctc	gctggccatt	ctcagacgag	480
gtcatcccat	gggaagtggt	gacggtcaag	gtgcattgtg	tagccctggc	cacggagcag	540
gagcggcaga	tctgcgggga	gaaggtgggt	gagaaactct	gcgagaagat	catcaacatc	600
gtggaggtga	tgaatcgcca	tgagtacttg	cccaagatgc	ccacacagtc	ggaggtggat	660
aacgtgtttg	acacaggctt	gcgggacgtg	cagccctacc	tgtacaagat	ctccttccag	720
atcactgatg	cccttgggac	ctcagtcacc	accacccatgc	gcaggctcat	caaagacacc	780
tgccctctct	agcgtcgctg	gatctctggg	agctccttga	tggctcccgag	accttggcct	840
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<220>
<221> SITE
<222> (141)
<223> n equals a,t,g, or c
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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

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 gctagatgtt tcccccttgg agttttgtca gtttcacact gtttgcctggc ccaggtgttac 660  
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<210> 44  
 <211> 1391  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <223> n equals a,t,g, or c

<220>

0000011-061001

<400> 44

<210> 45

<211> 1569

<212> DNA

<213> Homo sapiens

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aaaaaaaaa						1592

<210> 46  
 <211> 1924  
 <212> DNA  
 <213> Homo sapiens

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gtaa						1924

<210> 47  
 <211> 475  
 <212> DNA  
 <213> Homo sapiens

<400> 47						
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taagcagcac	agtggttatc	attctgttaa	attcctatgt	agaaggctca	gtgcttagaaa	360
taaaagtatt	ctactagtgc	caagttaaat	gtttctgttt	gttctgtctt	ccgtgttagca	420
taagtaaaact	ccctttggaa	ctacacaggt	atgtctctccc	ttcaacatgt	gtgaa	475

&lt;210&gt; 48

&lt;211&gt; 346

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 48

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gcgcacatga	agaccaaaagc	caggaccaag	ccccmascc	gctwaacacg	gcagartctt	300
gcccagccma	cytctgtgar	aatctgcttc	cctccacagc	tgacc		346

&lt;210&gt; 49

&lt;211&gt; 1366

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (499)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 49

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&lt;210&gt; 50

0900271-061801

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 <212> DNA  
 <213> Homo sapiens

<400> 50  
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 ttttaaccttc ggcacgtata atagaatttt ggtgaatgaa agaaccocaaa tagggccagat 240  
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<210> 51  
 <211> 2633  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (16)  
 <223> n equals a,t,g, or c

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<211> 777
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> n equals a,t,g, or c

<220>
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<222> (168)
<223> n equals a,t,g, or c

<220>
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<220>
<221> SITE
<222> (771)
<223> n equals a,t,g, or c

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<400> 52
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acatacagag aatgagagcta tgccagaaat gggaggaggc atttgaaaaca acatgagtat 120

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ctcagggaca	gatggattga	ttctgctatc	ggtaggcctg	gaagcaangg	tcagaagtag	180
caaaaaatgg	ataccaaaag	cactattwgt	cacccaagct	aagtgggaata	gtggccccag	240
tagggagaat	gcagggtttg	ccctacacta	agttctccaa	ctcttgataa	gcctccaaaa	300
acaaatgtta	ggggaaaaaa	acgcagctgg	ttatgaaaag	atatatctca	ttctattaaa	360
aaatcaatgt	caatgctgtt	aatagaatcc	ttttatcttc	aggacagagg	caatgcccta	420
aacaaaaccc	agctcaagag	cctctgatgc	caacctagag	ggtaccocaa	caaaaaacta	480
gcatagaggt	aagaatctct	atgtcttttg	gtggaggcaa	agccatttgg	tcggtacttc	540
acaggaacat	ctttctacca	agtcttcac	atatggtatg	tgccacaggt	ctccagttgt	600
tgccaccact	gtgtccatagc	tgagaatacg	ctgaaaggtt	agttttgatc	ctggaaaacct	660
atttacaatt	gccagctgat	gtccctgctg	ccacttaaaa	aaggcttggg	ctgggcatag	720
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&lt;210&gt; 53

&lt;211&gt; 602

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 53

atgactacag	tgttataccc	tccaatcttt	gcaggtgggg	atggaaacact	gcttggatca	60
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catggttttg	gatgagcagg	tcaatagttt	tgagagggag	tttgttcctt	ttttttttct	180
cattatactc	ttaaatttgt	gtcagttatc	aaacaaacaa	acagaaaaat	tgtttggaaa	240
aaccttgcat	acgccttttc	tatcaagtgc	tttaaaatat	agactaaaata	cacacatcct	300
gccagttttt	tcttacagtg	acagtatcct	tacctgccat	ttaattattg	cctcgtaatt	360
ttctcacgta	tatttacctg	tgactttgat	ttgtttatta	aacagggaaa	aaaacattca	420
aaaaaaagaa	ataataacbt	aggccttcac	tatactatta	tattattatt	atttttttga	480
cattttggaa	tactgtggaa	gttttatctc	ttgcatatac	tttatacggg	agtattaacg	540
cttaaaaaata	cgaaaaataa	ttttacaagg	ttccggtttt	ggtgtgtggaa	agagtaaaatt	600
ga						602

&lt;210&gt; 54

&lt;211&gt; 1749

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1747)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 54

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cccgaccaca	cttcccgcct	ccctaaaacg	ccacccccg	tagccatggg	cagccgcgac	180
cacctgttca	aagtgtctgt	ggtgggggac	gcgcagtg	gcaagacgct	gctgggtcag	240
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aacggtttgc	caggttggac	agaaacatca	gtcaaggaga	acaaaaatct	taatggaggt	660
atgagagttc	tcattgaaaa	gatgatgaga	aattccacag	aagatatcat	gtctttgttc	720
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tgtttgggct	attttccatc	ccagttctgt	gaggtctctt	aagttctctc	cctttgggtg	840
cccacctgac	atttttatta	agtcacattg	aattgtcttc	tgacttaatt	ccagtaagga	900



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gtgcctgttta	atcttcacgt	acttngggga	gggcttgaa	ccagggagga	actgcctctg	1860
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<210> 56  
 <211> 1753  
 <212> DNA  
 <213> Homo sapiens

<400> 56						
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tattttcacta	gaaaaaattt	aatatcaagg	actattacat	acttcttacc	taggaagttc	180
ttttttaaaat	gacacttaaa	acaatcactg	aaaacttgat	ccacatcaca	ccctgtttat	240
tttctctaaaa	catcttggaa	gcctaaagct	ctgagaatca	tggtggcaagt	gtgatgggca	300
gtaaaaatacc	agagaagatg	tttagtagca	attaaaggct	gtttgcacct	ttaaaggacca	360
gctggggctgt	agtgtattct	ggggccagag	tggtcattatg	ttttttacaaa	ataatgcatt	420
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atagaagaatg	ttactttctt	tcattatggt	tttggtttac	tggtcttaaga	ggttttctcag	540
aatatctatg	gcccacagcg	cataccagtt	ttccatctaa	taggaatgaa	attaaattttg	600
tatctactga	taacagaatc	tggtgtcacat	gaaaaaaaat	catttttatcc	gtcttttaag	660
tatatgtttta	aaataataat	ttatgtgtct	gcataattgca	gaacagctct	gagagcaaca	720
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aaaaaaaaagg	ggg					1753

<210> 57

<211> 1220  
 <212> DNA  
 <213> Homo sapiens

<400> 57  
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 cgtcatcatg ttgaccagg agggcaaaacc ttcaactgag gacttggggg atagaaggga 180  
 aggtggaatc attaaactca aagtcattgg acaggatagc agtgagattc acttcaaaagt 240  
 gaaaaatgaca acacatctca agaaactcaa agaatacatc tgtocaaagac aggggtgttcc 300  
 aatgaattca ctocaggtttc tctttgaggg tcagagaatt gctgataatc atactccaaa 360  
 agaactggga atggaggaag aagatgtgat tgaagtttat cagggaacaaa cgggggggtca 420  
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 aaaaatagtt cttttgttaat gtgggtgttca aaacggaatt gaaaactggc acccatcttc 540  
 ttgaaacat ctggtaattt gaattctagt gctcattatt cattattgtt tgttttccatt 600  
 gtgctgattt ttggtgatca agcctcagtc ccttccatat taccctctcc tttttaaaaa 660  
 ttacgtgtgc acagagagggt cacttttttc aggacattgc attttcaggc ttgtgggtgat 720  
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 tggacccaaa gaagaggaat atcagggtga agtcaagatg acagataagg tgagagtaat 960  
 gactaacctc aaagatgggt tcaactgaaga aaaggcattt taagattttt taaaaacttt 1020  
 gtccagaagt cccagaaaaag ttctaatttt cattagcaat taataaagct atacatgcag 1080  
 aatgaatac aacagaacac tgctcttttt gcttttattt gactttttg gccctgggata 1140  
 tgggtttttaa atggacattg tctgtaccag cttcattaaa ataacaata tttgtaaaaa 1200  
 tcawaaaaaa aaaaaaaaaa 1220

<210> 58  
 <211> 1049  
 <212> DNA  
 <213> Homo sapiens

<400> 58  
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 cgggattcttg gccaatgggg aaatcgtgca ggacgacgac ccccgagtga ggaccactac 180  
 ccagccacca agagggtagca ttctccgaca gagcttcttc aataggggcc atgggtgttcc 240  
 cccaggggggt cctggccccc gccagcagca ggcaggtgccc aggtctgggtg ctgctcagtc 300  
 ccccttcaat gacctcaacc ggcagctggg gaacatgggg ttcccgaggt ggcattctcg 360  
 caacctgatg gtggagccgg tgacctccat cctgtctctc ttctgtctca tgatgctttg 420  
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 cattaagtgg cacaataatca gagcaagaaa gcgagtccct tcccaattct ctcaactgct 780  
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 ctttttttagc actgtttttg ttttaattgt atatttttat tggctacttt atgtgtttag 960  
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 aaaaaaaaaa aaactctgag gggggggccc 1049

<210> 59  
 <211> 1776  
 <212> DNA  
 <213> Homo sapiens

090627.1.061801



<220>  
 <221> SITE  
 <222> (713)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (862)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1752)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1773)  
 <223> n equals a,t,g, or c

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 agcttcacat cctcttttcc tgcagstctg gacatcctga gcccaagatcc cccacactca 180  
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 catgcagga gtcactggac atgttcatcc tagaactcgt tcaactaca gtcatttctt 1440  
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 agctttagtg caatctctga aggttttaac ctcttttgtt gagtttgttg ggggaaggaa 1620  
 gggatatatg atgttattaa aaaaaaaaaa gtatatatgc atatatctat atataatcatg 1680  
 agcgagaat aaatctatga gaaatctatc tacaaamwaa aaaaaaaaaa aaaaaaaaaa 1740  
 aggaattcga tntcaagcct atcgataccg tcnacc 1776

<210> 60  
 <211> 443  
 <212> DNA  
 <213> Homo sapiens

09082771-061801

<220>  
 <221> SITE  
 <222> (341)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (436)  
 <223> n equals a,t,g, or c

<400> 60  
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 agctagcaac actggctctgc ttggctacct tctttggaac aacatgaaat ctgctccct 180  
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 agtgagtatt caacaaaaat gtgacacagg ttttctgctt gaactacgtg gtttcagggtc 300  
 cagctctgccc acttgctagc atgacctcgt gccgaattcc ngcacgaagt tttttttttt 360  
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 accctggccc cgcgantccc tga 443

<210> 61  
 <211> 2888  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (112)  
 <223> n equals a,t,g, or c

<400> 61  
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 accacatggc tgggctaagc agttccaagc ttccatgtc caaggccctc cctctcacca 180  
 aagtggttca gaatgatgca tacacagctc ctgctctccc ttccctctatt cgaacaaaaa 240  
 ccttgaccaa catgtcccggt acactgggtga acaaggaaga acccccacaa gagctgccag 300  
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 ctcgagtcac tgaggaggac attgttgagc ttttctgtgt gtgtggggcc ctcaagcgag 420  
 ctgcactggt cctccctggg gtgacggagg tgggtgttgt gaaaaaggac gatgccatca 480  
 cgcacataaa gaagtacaac aaccgggtgtc tggacgggca gccgatgaag tgcaaccttc 540  
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 cktkgaccac gcagcccccac gaattccaaa tcaagctttg agcaggggag tgaggcagcc 780  
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 tggatgggac cgcctttctc gtgtgtgtgt ctgccctgtg ctctctcttc tacgttaaog 960  
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 cctccccgag cctcagcccc aagctgattt ctatatctgga aatggtacac tgaattctct 1080  
 ggggtgcctt cttgtggccc catgggatgc agcgtggggg ctgctctgaa gacctgcctt 1140  
 tttccagggg ccgaggggct gcctttccct tgtgtgtatt aagcttttca acaactggag 1200  
 gggatggaga gccctgggtg cctgaocggga gccaggctcg cctgagagct gtgccctcc 1260  
 tctctcttgt cagtgaggat gcttgggtcg ggaagcagtc tcaggccctc tctctctctc 1320  
 ccagtggtct caggccctcag tagtggcaag gccaggatga ggctgcaccc ctggggaagct 1380  
 tctatctaaag ytccttgctt ggagctccct gtctctctcc cccagaggaa gtctctcaga 1440  
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<210> 62	<211> 1951	<212> DNA	<213> Homo sapiens
<400> 62			
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tgcgcagcat	agtctgctat	gtcaaaaaac	tgtcatcaac
ttcgcagaat	atattaaatg	tatcctaagt	gatgaagaag
gcttcacagt	tcatgcacac	tctctctcta	aagggtccaa
aactctgtcca	atttgatcag	cactctttatt	acaaacttga
cagtcttgat	tctccaacgc	agttgaaatt	tccaagaagca
ctgaggggac	tcgctttgtc	ctcgtgcact	gcactcccca
attcccaatc	tgcgaagatg	ttttaaagcaa	tcgaggacct
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aaaagcgccg	gtgttagcag	tgtatgaggag	cacactgtgc
aaacacaaaa	ccaggagagt	cttcagacca	ccgcagact
tctctcaatta	ttgatccagg	aactgagcaa	gatcttctct
aaagaatcac	gaatggaagt	tcacattctg	ttttcagaag
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 <212> DNA  
 <213> Homo sapiens

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<220>  
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<211> 883  
<212> DNA  
<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>  
<221> SITE  
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<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (871)  
<223> n equals a,t,g, or c

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<222> (1741)
<223> n equals a,t,g, or c
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 <222> (1748)  
 <223> n equals a,t,g, or c

<400> 68  
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 tgctatgact cggctggccc ttcatgagct gaaaaatctc acccagtata gctggctgtt 360  
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 <211> 508  
 <212> DNA  
 <213> Homo sapiens

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<210> 70  
 <211> 245  
 <212> DNA

090827.061801



&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 73

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&lt;210&gt; 74

&lt;211&gt; 4602

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 74

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<212> DNA
<213> Homo sapiens

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<222> (1227)
<223> n equals a,t,g, or c

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<221> SITE  
 <222> (1231)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1251)  
 <223> n equals a,t,g, or c

<400> 75

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 <212> DNA  
 <213> Homo sapiens

<400> 76

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<210> 77  
 <211> 465  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (458)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (462)  
 <223> n equals a,t,g, or c

<400> 77  
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 gctctggcgt tgcctgcccc ggcctctgtc gtgccggggg cccggggccg ggctctcgag 180  
 tgggtctcgg ccgtggtaaa catcgagtac gtggaccggc agaccaacct gacggtgtgg 240  
 agcgtctcgg agagtggcgg cttcggcgac agctcgccca aggaggggcg ccatggcgtc 300  
 gtggggcgct ccgtggcgcc cggcgagagm ctcgarggct kcgccggcca caccgcttc 360  
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<210> 78  
 <211> 1907  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1781)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1802)  
 <223> n equals a,t,g, or c

<400> 78  
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<210> 79
<211> 1168
<212> DNA
<213> Homo sapiens

```

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<220>
<221> SITE
<222> (1148)
<223> n equals a,t,g, or c

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<220>
<221> SITE
<222> (1149)
<223> n equals a,t,g, or c

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aaaaaaaana aaaaactcga gggggggc 1168

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<210> 80
<211> 1285
<212> DNA
<213> Homo sapiens

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<220>
<221> SITE
<222> (561)
<223> n equals a,t,g, or c

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<400> 80

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0000171-061001

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<210> 81
<211> 1290
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1279)
<223> n equals a,t,g, or c
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[illegible]

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 <211> 684  
 <212> DNA  
 <213> Homo sapiens

<400> 82  
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 gagttgtttt atagactctt atgattcaca aattctacat cttttggtag tctcttttcat 180  
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 ttatcagagc ccaactctga gggctctggg ctttagctac tgtcaccoca tcataactga 540  
 gcttcatgga ttgattctct tttttctctt cagattttct tttaaaaatc tttgtttttt 600  
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 gctctcattt tgaatttttt aaga 684

<210> 83  
 <211> 2024  
 <212> DNA  
 <213> Homo sapiens

<400> 83  
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 gcgcctcggg gctgcgagcg tggggaaagg gttggagggg gctgttgatc gcgcgcttta 180  
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<210> 84  
 <211> 931  
 <212> DNA  
 <213> Homo sapiens

<400> 84						
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<210> 85  
 <211> 825  
 <212> DNA  
 <213> Homo sapiens

<400> 85						
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<210> 86  
 <211> 1238  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE

<222> (567)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (651)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1014)  
 <223> n equals a,t,g, or c

<400> 86  
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<210> 87  
 <211> 1460  
 <212> DNA  
 <213> Homo sapiens

<400> 87  
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 cccactctct ttgcccagct ctgtgtggcc gaccagcgcg accggatgct cagcatcttc 180  
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aaaaaaaaaa	aaaaaaaaaa					1460

<210> 88  
 <211> 1395  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (967)  
 <223> n equals a,t,g, or c

<400> 88						
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 <223> n equals a,t,g, or c

09882171-061801



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 <223> n equals a,t,g, or c

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 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1123)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1886)  
 <223> n equals a,t,g, or c

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00002771-001001

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 <212> DNA  
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&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2209)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 96

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09882771-061601

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 <213> Homo sapiens

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0062171-061801

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0082771-061801

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0362171-061001



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09082171-061801

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 tgctgtggcc agccaggcag gaagagacct ttctctgac ggaccactaa gctggggaca 720  
 ggaaccaaagt cctttgctgt tggcccaaca accatctaca gaacagctgc tgggtcctca 780  
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 aaaaaaaaa a 1751

<210> 111  
 <211> 1117  
 <212> DNA  
 <213> Homo sapiens

<400> 111  
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 caaaggacct tgctaataatc tgtaagacgg cagctacagc aggcacattt ggctgggtgt 180  
 atgggggaaat accagctttt atcatcgcta aacaacaata catgtagcag agccaggcag 240  
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 agtactctgg tgagactgtt caggaaaagaa aacagaagga tcgaaaagca cctcatcaga 600  
 taaaactgtga agagtggaaa gcagactac aagttactga gcactccct gagaaaactg 660  
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00002171-061031

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<210> 112  
 <211> 1313  
 <212> DNA  
 <213> Homo sapiens

<400> 112						
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tcagtttaagt	agttgggtaac	ctctttctat	tttagtaaaa	cttaatgcat	gtttactttt	240
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tactacgaaa	agaagaagaag	gcaagctctt	ttagttaact	tgccccaat	tgtaaggcgt	360
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ggttattttaa	gcgggaagact	acttgccatg	ctccaggaca	tgaaaagact	gaagataata	540
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ttttgactctt	tagagacact	agttttggcc	aacttaagat	tttacgttaa	ttttttacata	780
gtatttgaca	ctcatgcaaa	ataatgtgaa	aacatctaga	tttagtagtt	tattctcgcg	840
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agaaggaagc	caaaatagtt	ttttctcttt	gaaagttttt	taaaaattat	ttcatgggtc	1140
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aatgtctttt	ttgttatcag	agattgtgta	ctatttttat	ttttaataaa	tgatatcttc	1260
cttttmaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaa	1313

<210> 113  
 <211> 1654  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (549)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (552)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1641)  
 <223> n equals a,t,g, or c

09002171-051801

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<400> 113
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gcctcctgct cggaaccgct tgagtgggtg aggaagatga gagatggtca gatggaagag 480
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tccttagatt tccctgttgt aaaaggggca agaaaagtaa ctacatcatc ctaacacacc 660
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gatttttttt cccaggatat ggtgttctat ttatgatatt acgcaggatg atgtattcag 1560
caaaaatcagt tttgtaaatc tttaaatatg ttaataataa acaatgcttt gacttatttt 1620
caaaaaaaaa aaaaaataaa nttcgagggg gggc 1684

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<210> 114
<211> 1171
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (18)
<223> n equals a,t,g, or c

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<220>
<221> SITE
<222> (69)
<223> n equals a,t,g, or c

```

```

<400> 114
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caacggctcg gcagccagcc atgtcctgca cccagggacag cggccctggg ctacaaggac 180
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gacgtcgtctc tggactgctc gttggacttc ttaccgcagg ggggtgaacaa agagaagatc 300
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gaccgatgga gtcttatatc cctgtcaaac aacagtggca aaaattgtgga actgaaattt 420
gtggagtctcc tccggaggga gtttgaattc agtgtagatt cttttcaaat caaattagac 480
tctcttctgc tcttttatga atgttccagag aaccacaatg ctgagacatt taccaccaca 540
ataatcgggg agagcgtcta tggcgatttc cagggaagcct ttgatcacct ttgtaaacag 600

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0000271-061001

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atcattgcca ccagggaaccc agaggaaatc cgagggggag gcttgccttaa gtactgcaac 650
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tggtccagggt tttccatcga cttctcagac attggagagc agcagagaaa actggagctcc 780
tatttgcaga accactttgt ggggaattgga agaccgcaag tatgagtatc tcatgaccttc 840
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caggagagaa aaaaaaaaaa aaaaaaaaaa a 1171

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<210> 115
<211> 842
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (834)
<223> n equals a,t,g, or c

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<220>
<221> SITE
<222> (839)
<223> n equals a,t,g, or c

```

```

<400> 115
ggtctgcgag ggaagtgcac gagctgcaga tgtgggtgctt agtgattgag gtttcggctg 60
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ggcaccagag gaaagaagca gatatttgaa gagaacagag agactctgaa gttctactctg 180
cggatcctac tgggggccaat tgccatttcc tgcttctgta cgttgggtctt ctcttactca 240
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taccactcta tgagctcgat ggcacagcag gcgttctctg aggtatggggc cctgatggat 360
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cgccagatga agcgggttata gccattgaca ttgtggccac aggcacctgg ccttgggttg 660
ctctgtcagg gtgcacagcc cctcatgctt ggagcaatga gggctctagtc cagggggccaa 720
aagcagctcg aggtatttgg tatacttata ctctataggg tctgtgaata aatggcttag 780
aatgtgaaaa aaaaaaaaaa aaaaaactcg agggggggccc ggtacccaat ttcncttana 840
at

```

```

<210> 116
<211> 1640
<212> DNA
<213> Homo sapiens

```

```

<400> 116
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gtccgggagcg gcggggycgg gggccagggg accccggggc acggagagcg ggaagaggat 120
ggattgcggcg gccctcccc cggatgggaa gaaggaggaa gtgatccgaa aatctgggct 180
aagtgtctggc aagagcgatg tctactactt cagtccaagt ggtgaagaat tcagaagcaa 240
gcctcagttg gcaaggtaac tgggaaatac tgttgatctc agcagttttt acttcagaac 300
tggaaaagatg atgcctagta aattacagaa gaacaaacag agactgcgaa acgactcctct 360
caatcaaat aagggttaac cagacttgaa atacaacatt gccaattaga caaacagcat 420

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09032171-061301

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<210> 117  
 <211> 952  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (10)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (951)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (952)  
 <223> n equals a,t,g, or c

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atttcagaaa	cattggggga	agggaaaaatt	ggctttctct	taattggcag	atgttccagt	780
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```

cggagctctgc tgaagtattata aggttccaaa aatatgggtaa aatcttggtt ttgtttaatt 900
tatctcaata aaagcccact ggrractccaa aaaaaaaaaa aaaaaaaga nn 952

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<210> 118
<211> 1256
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> SITE
<222> (1222)
<223> n equals a,t,g, or c

```

```

<400> 118
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cgggtgtgctg ctgaccaggc agaagctgcc tgtctacatc agcctgggctg gcagcggcct 120
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gaagagtgcga aagactttgt ggacaaaatt ggcaggtttc agaaaatagt tgggtgggtta 540
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cagtggtcag cagctacact tnatttggat cacacacgtg agtcagacag taccac 1256

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```

<210> 119
<211> 1143
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> SITE
<222> (1139)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (1143)
<223> n equals a,t,g, or c

```

```

<400> 119
ggcgttagca gccgggctgg tcctgctgcy agccggcgccg ccggagtggg gggcgggcat 60
gtaccttcca cattgagtat tcagaagaa gtgatctgaa ctctgacctc tctttatgga 120
tacattaaat caaatataag agtctgacta cttgacacac tggctcgagc aaacatgaac 180
gttgagagtg cccacagtg aatgaatcca aatccccgtg tcatgaacag cgggggtagt 240

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tggctgacat	atgcatctggg	agttggcttg	cttcacatttg	tcttactcag	cattcccttc	300
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ctaaactcatt	gggaacacact	ggactatgga	gtacagttta	catcttccacg	gaagtctttc	480
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gan						1143

<210> 120  
 <211> 1782  
 <212> DNA  
 <213> Homo sapiens

<400> 120						
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<210> 121  
 <211> 610

<212> DNA  
<213> Homo sapiens

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<400> 121
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ttggatagga atgggggctga tggggcttcat cgtttataaa atccgggctgt ctgataaaag      180
aagtaaggctt ttgaaaagcgt cagcgccctgc tccctggctcat cacaaccaga tttacttgga      240
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gatcctgtgag atgcaactgct acctgggtact gctttcagtg tgttccccctc cagccctccg      420
gcgtgtcagg catactctga gtatagataatt tgtcatgcag cgcattgcaat cagaatctca      480
ctgagccacc catcattgtg aaataaattac ctcagttgta caggacttgg tgatcaggat      540
ccaggcactc acttgtattc tactgtctcaa taaacgttta ttaacttga aaaaaaaaaa      600
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```

<210> 122  
<211> 526  
<212> DNA  
<213> Homo sapiens

```

<220>
<221> SITE
<222> (48)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (496)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (501)
<223> n equals a,t,g, or c

```

```

<400> 122
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cgagctgcgc atcttcgcca acatgctggg cgtgtcgctc ttcttgcctg tegtctctca      180
tcactacgtg gcggtcaaca atcccaagaa gcaggaaatga aagtggcgct ttctccgccc      240
cagggttcca ggacatagtc tgaggcaaga tggaggggtat gagggggcctt cacacttcac      300
ttcatccctt ctaccocatca caacatacaa agcaactaca cctggatttt tccaaacaac      360
ttttatttcc tcagagtctt ccttaattct atggaacaag aagctgccac tgaatagggc      420
ccagtatagg ggcttgcttt tctactccct cccccaata taataataa gacttttttaa      480
aaaaaaaaaa aaaaanttcg ngggggggscg ggtacccatc ccccta          526

```

<210> 123  
<211> 2081  
<212> DNA  
<213> Homo sapiens

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<220>
<221> SITE
<222> (1996)
<223> n equals a,t,g, or c

```

09002171-061001

<220>  
 <221> SITE  
 <222> (2054)  
 <223> n equals a,t,g, or c

<400> 123  
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 cagtcggcggt gctcttctgt tcttcagctc tcgccgcgacc ctgcctcggtg ccacacggggg 180  
 cgggctacga gctgctctc cagaagttcc tcagcctgta cggcgaccag atcgacatgc 240  
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 agggcttcgc ggtraggcag cgctgcaagg tgcgctcgt gcggtgcag atccagctca 360  
 ctaccctggg aaatcttaca ccttcaagca ctgtgtttt ctgctgtgat atcgaggaaa 420  
 ggttcagacc agccatcaag tattttgggg atattattag cgtgggaccag agattgtgtg 480  
 aagggggccc gatttttaga attcctgtta ttgtaacaga acaataccct aaaggctctg 540  
 ggagcagcgt tcaagaaatt gatttaacag gtgtaaaact ggtactttcca aagaccaagt 600  
 ttccaatgggt attaccagaa gtagaagcgc cattagcaga gattcccgga gtcaggagtg 660  
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 cttttatatt actgtaagat gttataatgt taatgtggat gtatgtctt tactttacag 1380  
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 cactccccct acaatgttgt ccacttagtg agttgcattg atctatccgt accaaaatgat 1500  
 gttgaataat tacatatctt tcttgactat actgatttct tattttggtc actattacta 1560  
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 ccataattatt ggtggagggc tgttttaaca tctttgaagt atggccttgtc gaatatcttt 1680  
 accaacatct tgaatatata ttctagtgtc cacaagattt agcaaaaaga taaagcttgg 1740  
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 atctatgaaa tgtgaacctg tctcttttta tattaaagta attaaagaaa atgtatttgt 1980  
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<210> 124  
 <211> 1717  
 <212> DNA  
 <213> Homo sapiens

<400> 124  
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 tttggtgggt aagagatggc tgacagtgct aaaaactttc tcaggagacc tgccagagga 180  
 atcaaaagact ccatctgggg tatttgtacc atctcaaaagc tagctgctcg aatccagcaa 240  
 aagagagagg agcagcgtcg aagaagggca agtagtgtct tggcacagag aagagccacg 300  
 agtatagagc ggaagcaaga gagttagcca cgtattgtta gtagaatttt ccagtgctgt 360  
 gcttggaagt gggagtggt ctgggtccagt ctctcttgtt ttatccagat atttatctct 420  
 gtgctccagt cggtaacagc ccgaattatc ggtgaccatg cactacatgg agatgtcttg 480

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tgggtggtct tcttaagcaa cagactcttc cacaagacag tctacctgca gtcggccctg 1080
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<210> 125
<211> 804
<212> DNA
<213> Homo sapiens

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<220>
<221> SITE
<222> (721)
<223> n equals a,t,g, or c

```

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<220>
<221> SITE
<222> (723)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (730)
<223> n equals a,t,g, or c

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```

<220>
<221> SITE
<222> (766)
<223> n equals a,t,g, or c

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<220>
<221> SITE
<222> (769)
<223> n equals a,t,g, or c

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<400> 125
ccacgcgtcc ggtcactatg tagtgagggg gcagacacc tcccgcacaa tctggaaggt 60
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cggtgaaagc gagctgcctg gcctatgttt ggctgcttgg tggcggggag gctgggtcaa 180
acagctgcac agcaagtggc agaggataaa tttgtttttg acttacctga ttatgaaagt 240

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09002171-051801



<220>  
 <221> SITE  
 <222> (435)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (2186)  
 <223> n equals a,t,g, or c

<400> 127  
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 tatgatacca caattagaac tggcagagca ctgaaagaaa agacttttgtt tcccgaaagat 180  
 astcagaaac ttgacaattt cctaggagaa gtcagagaca aatgggatac tgtttgtggc 240  
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 cagcccggtgc accgggggacc ttgacctcgt catgaacctc atggaatgcac acaaggttttt 420  
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<210> 128  
 <211> 1144  
 <212> DNA  
 <213> Homo sapiens

<400> 128						
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caat						1144

<210> 129  
 <211> 1830  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (317)  
 <223> n equals a,t,g, or c

<400> 129						
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<210> 130  
 <211> 1864  
 <212> DNA  
 <213> Homo sapiens  
  
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 <221> SITE  
 <222> (1648)  
 <223> n equals a,t,g, or c

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aaaa						1864

<210> 131  
 <211> 2041  
 <212> DNA  
 <213> Homo sapiens

<400> 131	
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<210> 132  
<211> 2012  
<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (202)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (541)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (560)  
<223> n equals a,t,g, or c

<400> 132  
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2012

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<210> 133
<211> 1669
<212> DNA
<213> Homo sapiens
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[illegible]

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<210> 134
<211> 1565
<212> DNA
<213> Homo sapiens
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<220>  
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<222> (58)  
<223> n equals a,t,g, or c
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<220>  
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<222> (1075)  
<223> n equals a,t,g, or c
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<210> 135  
 <211> 2007  
 <212> DNA  
 <213> Homo sapiens

<400> 135						
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gaatagaaac	tgatagcatt	aaaatactcc	gtccctctct	ctcttctgcg	tcctcttttt	1800
ttttttttta	aatttagggt	aacacatttt	tgttttctaa	gtgattttgt	atttgtgtgt	1860
tataaactgt	ataaaagggt	ctgtttttta	aggtggattt	tcattctctt	ggggacagtg	1920
gtcgccaaga	catctacatt	gtaagagaac	acagtggagg	atcctgtctt	gattctctaa	1980
aattattttc	tctgtatgat	taaaagt				2007

<210> 136  
 <211> 1291  
 <212> DNA  
 <213> Homo sapiens

<400> 136	
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gtagctcaga	tcttacttta atgtcagtcg agatttgc
tttctcattt	ttatgtgtgt ggggtcttagt ttttaaatg
gttttatttt	ctactcatat ttagggttta ggaacacacta
aaattcaatg	gtctactgaa acaaaaatgg taacttttca
atagttagtt	tttccagaaa acacttcttc acaattgtac
tcatacagtt	attccccatg aaggcagaat gtttgtttca
acatttaaat	ttgagaaggt gacaaactggc tcttttccag
ctgtacagacc	actattggca aacagtatct gtcaactacc
atttcaattt	gtcttatttg taaaatgtga actaaaactt
gctgagcctg	gttttttaagc taatgtgtat tcttactaat
tgtaatatat	gctgtctatt tctaatgttc acatttcata
taatagagaa	cagactcttc aaaaaatctt cagaagcagc
tattgaaata	aaccocgttg gttagattac tcatctgtcc
ggactggggg	cttaaaaggc cctgtaagta aatcctgaaa
ccccacttga	atggttactg gagtaaaacc acctttacca
gcgataaaac	caacttggtt ctgggttcatt tttcttttct
caaaatttgt	gtttcacact gttacaggct tctcttttgt
taacttttgt	tggaacacatt agaataattca gagaccaaaa
tattttttcag	aagtcagcag atttgtggca aatcattttat
tttaagcagtt	cagagagtag actactcaga aaattatttc
aattatttttt	aatgcattat gaattcaata a

<210> 137  
 <211> 1906  
 <212> DNA  
 <213> Homo sapiens

<400> 137	
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aaattgtgaa	tctttttaa
tgacttgaaat	tcagcttagt cctgtcgata
ttccctctcc	ctcttagttt ttaccocaat
attttgtttt	aattgtttta
cataaaagca	aaatacttac atagctttct
gagaaagtaa	gttgctttgc accgcctact
ttttgaatat	ggaatcttca
ataagcatat	atgtgtgtgt gtgtgtgtat
ctacacaaca	taattcaatt ttttaattcc
cttttgaggc	tgaaatccgt attaacttgt

tctcaagtta	gttgcaactta	catgattatt	gtgattttaa	actaagaata	aaggctgcac	780
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gggctaccca	gaaaaagtga	cttgataaca	tggtaccaat	aagtaaggga	tgctctctcg	960
gtttctgtcc	gccactttca	agatttttaac	ttctcaggtt	attaatacaa	attatctgtat	1020
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<210> 138  
 <211> 1935  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (450)  
 <223> n equals a,t,g, or c

<400> 138						
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agctagtact	gactgcacatt	caattgtgatg	agggcagctt	tctggtacag	gattctaaagc	120
tctatgtttt	atatacattt	tcactctgtac	ttgcacctca	ctttacacaa	gaggaaaacta	180
tgcaaaagta	gctggatcgc	tcaagggtc	ttagggttaag	tggcaagctc	atgcttcccc	240
ctcagctctc	cagctgcaga	agctcacttc	ttctgctatt	ttgtatactc	ttcttaatat	300
gtgctcagct	ttggaaaagt	tagaaatgggt	ccctgggtgcy	tttttacttt	gaagaaatca	360
gtttcttgctt	ctttttggaa	aagaaaaacaa	agtgcaattg	ttttttactg	gaaagtattacc	420
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taatggataa	ctttattttat	cttaaaactaa	gcttctctgt	tatacacact	cctgtttatct	960
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gtcactggga	tcctcgaagt	tgccctggct	tctgcacctt	ctaaacctag	ttcttaagag	1860
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aaaaaaaaaa	aaaaa					1935

<210> 139  
 <211> 1446  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1)  
 <223> n equals a,t,g, or c

<400> 139						
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ggaagcttat	tttcccgtgg	ccaggatgca	tttctctgag	tggaaacagc	ttcttgcatg	180
tggtatgtgt	tttcccagc	cagacggccc	ctctyttccc	agcactcccc	tgctcccccc	240
agggctcagg	ccagcaccga	gttctctctc	acatggcagg	tgagcacaga	cttctagtgt	300
gcaggagctg	aggagggtga	acaaaccctg	agggaggccc	ggcccttgct	ccccagttgg	360
ggggaggggg	tgtggcaacg	tgccccccgc	agaggccacg	catgtttgac	caaaagccctc	420
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tggtgtagtg	gatattgagc	gaaagactcc	caaaatgtgc	caagaatttc	ccrgcccccag	540
gcagggcagg	ggaaactaag	ggcaagcagg	atcacggggc	agggatgtgg	cagggtgaggg	600
ggctcccgcc	tgtgtccctt	ctcctcacca	tgtctccccc	accctgcctc	agttctccgt	660
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aggaataat	tgaaaatgtg	tgaggtgact	ccccggaggg	cttgggcttg	ggcatttggg	960
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gctggcattt	tgttgggtgt	tagtgccaaa	cttgaatagg	ggctgggggt	ctgtcttcca	1080
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agccacggac	tccaatgcc	agctcctctc	cccaaaacaa	tcccacaaat	cccttatccc	1380
taccccaacc	ctttgcggct	ctgtacacat	ttttaaacct	ggcaaaagat	gaagagaata	1440
ttgtaa						1446

<210> 140  
 <211> 1109  
 <212> DNA  
 <213> Homo sapiens

<400> 140						
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agactcagta	taaaaagcacc	agcatcccta	cttgggtgat	ggggatctaat	tttatagcat	180
tccattttcc	tagtgccaca	tgtgaaattg	gattttgatg	atcttaatat	atatctctacc	240

cttataataa	aagatcaaaa	gatatatctc	ctatgaacag	attggagata	ggagatgaaa	300
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aagaaagtca	atctgtatcc	taagcatttt	aataaaaagt	taaaacaaaa	aattaaaagg	1080
gacactcgag	ggggggcccg	aaaccaat				1109

<210> 141  
 <211> 497  
 <212> DNA  
 <213> Homo sapiens

<400> 141						
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cattatcctt	aacattttact	ctcaaaaagc	tttttatttt	tatttttttg	aaggtagttt	180
ttctgtgtgt	actctgtaac	atgattttgc	tttcaaatca	ttgtgtgtcc	cccatataaaa	240
atgccttttta	tttttgagga	tctgtggact	tttagtatgg	catgagtgtg	ctaaaagcca	300
gatatcttttc	cacattcact	ggttggtttg	acacctagtt	tttaattctc	catccttact	360
ttaaacctgt	acagtgacgt	cctcagtcag	ggccaggacc	gggctgaagg	cctttgtgga	420
gatgtgcac	caccagcaga	aggctgagac	ctggttacct	gtacctgttc	actttgtaata	480
aaaagaatta	tctaaaaa					497

<210> 142  
 <211> 269  
 <212> DNA  
 <213> Homo sapiens

<400> 142						
atgaggcaga	ggcaagctgc	ctgccaaacc	cctccctcaa	ggaatggcct	tgcccaggaa	60
tgcccaccac	acataccctc	ttcttttttt	ctagtcacac	tcttgtttat	ctcttggtct	120
gcctccctcc	ttctctcccc	tctcaacctt	tacttctggt	tttctatttc	atgggagtgt	180
gggttgaagt	taaaacttaca	acagtcgccg	caacaccaag	tcttgcagga	aaaaaatata	240
aagaaattta	acaaaaaaaa	aaaaaaaaaa				269

<210> 143  
 <211> 1269  
 <212> DNA  
 <213> Homo sapiens

<400> 143						
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acaggccgca	cctcaggctc	ggcacaagaa	tgtgcacaaa	tcttctatgc	tgccgggtgct	240
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aaaaaaaaac						1269

<210> 144  
 <211> 1944  
 <212> DNA  
 <213> Homo sapiens

<400> 144						
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aatgtcatct	gctcaaaagt	gagtggttta	ttccacaata	actgtgaagt	tctgattata	1920
aaaaaaaaaa	aaaaaaaaaa	aaag				1944

09032771.061301

<210> 145  
 <211> 1021  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (653)  
 <223> n equals a,t,g, or c

<400> 145  
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 <213> Homo sapiens

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<220>  
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 <223> n equals a,t,g, or c

<220>  
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<210> 148  
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<220>  
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<223> n equals a,t,g, or c

<220>  
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<222> (2087)  
<223> n equals a,t,g, or c

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 <212> DNA  
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<213> Homo sapiens

<220>

<221> SITE

<222> (41)

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<222> (1855)

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<222> (2016)

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<211> 1981

<212> DNA

<213> Homo sapiens

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<220>  
 <221> SITE  
 <222> (484)  
 <223> n equals a,t,g, or c

<400> 156  
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 tttcttggt tcaacgtttg attggaagaa caacccccct tttgtcaacc tcaataaiga 120  
 gctcactgtg gaggagcagc tcggggcacag ctcmcgtga tggctattgt tccccccaa 180  
 gaccgcaaaa actctgtgtg gacacaggat ggacctcag cccagatcct gcagcagctt 240  
 gtggctcttg cagctgaagc cctgcccattg tttagaagag agctcatgga tccccgggga 300  
 cctggggaca tcaggacagt gttccggccg ccttgggaca tttacgagct gctgatctgc 360  
 ctgtytctcc gccatatccc gcggcacccg aggtctgttg actcgccagy tgcctccttc 420  
 tgccggggcc tgctcagcca gccggggccc tcattccctga tgcccggtgt gggtnatgat 480  
 cctnctcagc tctatctgac gcagctcagg gaggcctttg gggatcttgc cctttctctc 540  
 tatgaccagc attggtggaga ggtgatttgt gtctcttgga agccaccag cttccagccg 600  
 cagcccttca aggcctccag cacaaagggg cgcatgttga tgtctcgagg tggggagcta 660  
 gtaatgtgtg ccaatgttga agcaatcctg gaggactttg ctgtgctggg tgaaggcctg 720  
 gtgcagactg tggaggcccg aagtggaggg tggactgtgt gatccagct ctggagcaag 780  
 ctgtagacgg acagcaggac attggacctc tagagcaaga tgtcagtagg atgacctcca 840  
 cctcctcttg acatgaatcc tccatggagg gcctgctggc tgaacatgct gaatcatctc 900  
 caacaaaacc cagccccaac tttctctctg atgtccagc attggggcag gggcatgggt 960  
 gccatgttag tctcctgggc ctaccatcc cagaagaggga gtgggagcca gctcagagaa 1020  
 ggaaactgaac ccaggagatc catccacctt tttagccctg gccctggacct cctctggatt 1080  
 tccccctctt tctctagtct tctccagaa acagagaagg ggaatgtgtg ctgggagagg 1140  
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 tctgtgtttg atgcaacttc ccagggtgga gacagtggaa aagaaccggag gacaggaagg 1380  
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 actgcccata ctctgtacct gcagtggggt tgcagagatg ggggagacct aagtcttact 1560  
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 ccaacttctg gtgacctctc tgcttctctg aattcttgct gtttttccag actcagctca 1680  
 aatagtcccc ctctcttaag ccatccctgc cccccagctg gaggtgatct tctccctctc 1740  
 ggaactatta gagcagttac tgtctgttca gtctgtttgg caggcgacata cagtggcata 1800  
 aattctattg ttttgaactc tgatttaaaa ttaaatgtga gctggggcgtg gctggctcatg 1860  
 ctgttaactc caacacttag ggagtmaggr gaatcactg ascycaggag tycatagacca 1920  
 atctggggcaa magagagacc ccatctcttt taaataaaaa gttaaattgc ttaaaaaaaa 1980  
 a 1981

<210> 157  
 <211> 915  
 <212> DNA  
 <213> Homo sapiens

<400> 157  
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 ggcgggatga atgcctcgtt gctgcagttt gctgaggtgt tccccgttaa ggtattggc 180  
 taccagccag atccccgtga ctaccaaata gctgtgggct tctctggagc gctggctggg 240

0966271-061001

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ctcatgatgg	ggggtatctt	caccttggga	gctctgaaag	agtcaactaa	cacctgtatc	360
ccagccatgt	tctgcccggg	gttctgtgctg	ctgctgaaag	tccggccagct	cttagccccc	420
actaaagaag	tggccagacc	cactaggaag	aagactctaa	gtacattcaa	ggaaacctgg	480
aagttagagca	tctctgtctc	tttatgcatc	gcagctgtca	cagcaggaaac	atggttagaac	540
acagagctca	tcatcttgtt	accagtataa	tatccagggt	cagccagtgt	tgaaggagac	600
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atgtttatgca	tattaacatt	cctcatgtca	tatgaaaata	caaaaataagc	agaaaaagaaa	720
tttaaatcaa	ccaaaattct	gctgcccocaa	ataccacttt	ttaatgctct	gggtgaagta	780
tacctctgaa	ctttttttctg	tgccttttaa	cagatatata	ttttttttwa	atgaaaataaa	840
aaccatatac	cctattttat	ttcctctctt	taaaacctta	taaactataa	maaaaaaaaa	900
aaaaaaaaaa	ctcga					915

<210> 158  
 <211> 2117  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (2072)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (2113)  
 <223> n equals a,t,g, or c

<400> 158	
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cgggcagaag	cgaggccctta
tggacagcat	cttgcacaaga
aaagcccaca	aaacctctca
cgctcagcaag	atcatcgcaag
ctgtctttag	gccacattgc
gttacagttg	tggatctgag
tgaattggat	aagatgcgat
tgaactgtgt	gatggggctc
agcagaaag	atcacagatg
catcaagctc	aaagacattg
tggctttctg	cacagcagct
ccccctggaa	tacaaacacc
tgaatttgat	gaagacattg
ggagagagtt	ttcttcagata
cgatgatctg	cagctcatgat
cactcagctc	ttccacactt
gtttctgtgt	tgatgtgaca
agggccacca	gggacccagg
agccagctgc	cagcccaact
ccaagctgtt	ctgttttcaa
ttaaaatgat	ttttaaacatt
tgtgtttttt	tttaagtctt
tgagcccaag	cacacatgca
tggagcatga	gccagctctg
ctgttttaggt	gaaggacaag
cggggtccggg	catgaagctg
gggtggagccc	atcagccttg
tgccctcttcg	ccgagtgctg
gatctggacg	acaacctctt
tttggtttca	taaaacaacc
acaggccacc	gcaaaaattt
ctgaacagtg	actatgtcca
atcaccttgt	acaaggatca
aggtccatct	tcatatttga
aagcctttcc	tcgactatta
atattttcca	gcaatgtctg
agtggaaaag	agagggaaaga
gttttccaata	acaagaacacg
gattattttg	ttccctttcc
gaaattgcagt	cccagggtca
attatttacta	
aaagaaacaa	
atccagtgaa	
tgttttaatt	
gggactgtgg	
gggactgtgaa	
ataagcctga	

aacagcctct	ccaaggggtt	tcacccctagc	aacaatggga	gctgtggggg	tgattttggc	1740
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tactattatt	tgttacgttt	aactcagaatc	cccgaaacct	ccataaaagc	tagctgtccc	1980
ctctctgagg	tgcttgagaa	ggtgtctttc	tttataaatg	caaatggcta	cggttttaca	2040
ataaaatttt	gcattgtgca	aaaaaaaaaa	aaaaaaaaaa	aaaatcccg	ggggggggcg	2100
gtaaccaatt	tgncccc					2117

<210> 159  
 <211> 2395  
 <212> DNA  
 <213> Homo sapiens

<400> 159	ttttacattat	ttttcttttt	ctttttttct	ttttttttca	aattccaacc	60
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	ttcagattta	ctcccaataa	agtatgcaac	ccttaagcaa	agctttttct	180
	gagaaaaaaa	aaaaacctat	acagtagtct	ttccttatgt	tcattgacaa	240
	tgctttttga	actttgacac	tcaatgggtta	attttacaat	ttaagattcc	300
	ctttttttct	actccaaaac	accctgtgaa	agttttttct	taggatgggtg	360
	cattttctga	caattcactg	gaattttttt	ctttgttaata	aaaatctctt	420
	ccaaaaacaa	acaaaaacaa	aacaaaaacaa	aacaaaaaga	aaagtctctc	480
	gttttctgag	ctatgcatgt	atttctgttt	tatagctgct	ttatagctac	540
	agatctggtt	taattgtgat	aactgcattc	acacgcagca	gaatactctt	600
	cttggggaaa	gagatctgga	aaaaaaaaat	acatgagtac	caggaacaaa	660
	gtaaaaatat	agggcaaaaat	gcctacaagt	agatgctgtt	ttcattttaa	720
	catggttgta	ttttcttttt	ttaaaaaccg	tctggtcatt	agaatgcatc	780
	ctggaaacac	tgtgattata	gcaaaagtat	tgttttttaa	aatgttattt	840
	catttcattc	tcacccctta	aaatactgat	acagatgtca	aagaggcaaa	900
	aatgggaaga	ccataaaaaa	gagtatcacc	ttgtgtcttc	agatcacatt	960
	gtgtacaata	gtcctttcat	ttcacatttt	tagtaagata	ctgatgcagt	1020
	tgcaaaagcat	ctttctttcc	acagtcctgt	cacgacatct	aattttttgt	1080
	gataaaaaat	attttaaaaa	atccagtgat	aacaaagttc	aaaaatgcata	1140
	catgagtcga	ttttctttta	actctgaag	aataaagtgg	taagaaaaaa	1200
	ctgctgtctg	attctctgat	cttctccatt	ttgctgggtc	ggtctactct	1260
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	ggtagaggga	gatgctgcat	aacttgaaag	ttgtagcttt	gtttttttga	1380
	gctgtctgtc	aatgaagaga	acacagtgat	ggttaggatt	gttgacaaag	1440
	ttgtccttgc	gctcagtcac	tgcagaaaat	gttttttcata	gtcacctatg	1500
	attttccctga	acaggctctac	aaggctcctc	agattttcttc	ccactagaaa	1560
	gacgattttt	tcaatatcat	tcggaggcca	aagaatgaaa	tcctctctct	1620
	aatcatatct	ctttctcatg	actgatctgc	aggagcatgg	agctgtacca	1680
	taaaagctcat	agggaacttt	ccaagggaat	gctggaatct	cgacacacct	1740
	ttctctgcata	ttattgtgtc	tgactgggat	aacctcagac	acttcaaaaa	1800
	tttctctctc	tccttggaata	caaaggcaat	atacatcttg	aagtcaaaat	1860
	agattctctt	ttctttctaa	gctgagcaag	tagtctgttc	agagcttggt	1920
	gtttgggtgt	cccatctttga	atacagagtg	gtactaaaag	ctttgggaat	1980
	actatgtggc	actttttttc	aagactcaag	tacaacagaa	acaagtcmnt	2040
	ctaattatgt	tgatttagcga	aaatcacgac	tataacccaa	aaactgcacc	2100
	atttagcagc	tgtcatatata	cagggtcgaag	aaacaaaaag	tgctgtccag	2160
	acaaataacgt	ttgggggtcag	cggggaaaaa	gggaggaaaag	aaaggaaaag	2220
	aaatacatc	ttttctggaaa	acacatttgg	cttaactgct	aaaataaaag	2280
	aaatgaaaag	ccataataatc	ggattttagg	gtgcaataaa	acacagctga	2340
	atccctaata	ttccatccga	ttttccccc	tttttagaaa	agggattaa	2395

0960274.16301

<210> 160  
 <211> 2120  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (975)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1405)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (2120)  
 <223> n equals a,t,g, or c

<400> 160  
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 taatgaggac gcttggcgaa acgcagtaac ggatttccgg gtggaccttc gctttacggc 120  
 tcgtgagttc ttccgcccac ccagagagaa gcgggagagc agttttacgac agcgcggctc 180  
 gtgtttacgg cggcgcccgcc tgcgcgcgca tgtttcctct tttcctggtt tctcaagagt 240  
 gctgtgctca acgcgggtccc cggcacgcac catctgttgc catccccggcc ggccgaggca 300  
 tgcagatatt tggaaagatgg caaagtctat gacacccgtg atccaggaca acccctcagg 360  
 ctgggggtccc tgtgcggttc cgcagcagtt tccgggatat ccttaccagc cgttcagcaa 420  
 agggagatgg ctaggaaaagg ttgcagactg gacaggagcc acataccaaag ataaggagta 480  
 cacaaataag tactcctctc agttttggtgg tggaaagtcaa tatgcttatt tccatgagga 540  
 ggatgaaagt agcttccagc tgggtggatc agcgcgcaca cagaagacgg cctaccagcg 600  
 gaatcgaagt agatttgcgc agggaaacct ccgcagagac aaagatcgct ggaacatggt 660  
 gcagttcaac ctgcagatcc tgccaaagag tgccaaacag aaagagagag aacgcattcg 720  
 actgcagaaa aagtccaga aacaatttgg ggttaggcag aaatgggatc agaaaatcaca 780  
 gaaaaccocga gactcttcag ttgaagtctg tagtgattgg gaagtgaaa aggaaatgga 840  
 ttttctctcag ttgatgaaga tgcgctactt ggaagtatca gagccacagg acattgagtg 900  
 ttgtggggcc ctagaataact acgacaaaag ctttgaccgc atcaccacga ggagtcgagaa 960  
 gccactcggg asatncaagc cactctctcca cactgtccac accacagacg accctgtcat 1020  
 ccgcaagctg gcaaaaaact aggggaaatgt gtttgccact gatgccatcc tgggccacgt 1080  
 gatgagctgt acccgctcag tgtattcttg ggatattgtc gtccagagag ttgggtccaa 1140  
 actctctctt gacaagagag acaactctga ctttgacctc ctgacagtga gtgagactgc 1200  
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 ggcaacctac atcaaccaca atttctccca gcagtgcttg agaattggga aggaaagata 1320  
 caacttcccc aacccaaac cgttttgtga ggagacatg gataagaagt aaatcgcttc 1380  
 tgbtgcgatc cgttaccgca gtgnaagct tggagatgat attgacctta tbtgctgttg 1440  
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 ggtcatcctg tctctacagg tccctgatgg cactctcagc tctgatgaag atgaggagga 1920  
 agaggaggag gaagaagagg aagaagaaga ggaagaaact taaaccagtg atgtggagct 1980  
 ggagtttgtc cttccacoga tactcagagg gcctttgatg cttagtggaa tbtgtgtcta 2040  
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 aaaaaaaaaa aaaaaaaaaa

03602171-061801

<210> 161  
 <211> 900  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (495)  
 <223> n equals a,t,g, or c

<400> 161  
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 cctccaccct caccctgtac tcaggaccac agaagcaaaa gttctcactc aaactggatg 120  
 ccaaggatgg gcgctgttcc aatgagcaga acttcttcca gcgggcgcc ccagcctctgc 180  
 aagtcaacaa gtggaagaag ctgtactcga cccactctgt ggccatccct acctgcattg 240  
 gtttcggtgt tcaccaggac aaatacaggt tcttggtgtt accagacctg gggaggagcc 300  
 ttccagtgcg cctggatgtc agcccaaaag atgtgctgtg cagagaggtc tgtgctgcag 360  
 gtggcctgcc ggctgctgga tgccctggag ttcctccatg agaattgata tgttcatgga 420  
 aatgtgacag ctgaaaatat ctttgtggat ccagaggacc agagtcaagg gactttggca 480  
 ggctatggct tcgcnttccg ctattgcccc agtggcaaac acgtggccta cgtggaaagg 540  
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 gggcctctcc gcgcgcgcga cctccagagc ctgggctact gcatgctgaa gtggctctac 660  
 gggtttctgc catggacaaa ttgccttccc aamamtgagg acatcatgaa gcaaaaacag 720  
 aagtttgttg ataagccggg gccctctgtg ggacctctgc gtcacttgat caggccctcc 780  
 gagaccctgc agaagtacct gaaggtgtgt atggcctcca cgtatgagga gaagccgcc 840  
 tacgccatgc tgaggaaacaa cctagaagct ttgctgcagg atctgcgtgt gctctcatat 900

<210> 162  
 <211> 1003  
 <212> DNA  
 <213> Homo sapiens

<400> 162  
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 ctgtctagcc aagctggcct ccccatggc cctgtgggt ccacagcagc ggggctgccc 180  
 cccagggcca ccgcttcttt ctgtactctc ttctcctaac agtgacttgg gcttgagtct 240  
 ggcaaggaa cctgtcttta gcttaccac caaggagaga ggttgacatg acctcccgc 300  
 cccctcacc aagctgggaa cagaggggat gtggtgagag ccaggttctc ctggccctct 360  
 ccaggtgtgt ttccactagt cactactgtc ttctcctgtt agctaataaa tcaatattct 420  
 tcccttgctt gtgggcagtg gagaggctgc tgggtgtacg ctgcaactgc caactgagtt 480  
 ggggaaagag gataatcagt gagcactgtt ctgctcagag cctctgatct accccacccc 540  
 ctaggatcca ggaactgggtc aaagctgcac gaaacaggc cctggcagca aaacctggga 600  
 tggctggagg tgggagagaa cctgaacttc tcttctccct tccctccctc aacattactg 660  
 gaactctatg ctgttaggat cttctgagct tgtttccctg ctgggtggga cagaggacaa 720  
 agggagaagg aggtctctaga agaggcagcc ctctctctgt ctcctgggta aatgagcttg 780  
 acctagatga aatggagaga ccaaaagcct ctgattttta atttccataa aatgttagaa 840  
 gtatatatat acatatatat atttctttaa atttttgagt ctttgatatg tctaaaaatc 900  
 cattccctct gccctgaagc ctgagtgaga cacatgaaga aaactgtggt tcattttaaag 960  
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<210> 163  
 <211> 2196  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1837)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1840)  
 <223> n equals a,t,g, or c

<400> 163  
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 gggaaacatc agcatatgca tgaccgagat gacctctatg ctgagcagat ggaacgagaa 120  
 atgaggccaca aactgaaaac agcctttaa aatttctatg agaaagtaga ggctctaaact 180  
 aaggaggaaac tggaaatttga agtgcccttt agggacttgg gatttaacgg agctccctat 240  
 agggatgacct gccctccttca gccccactagt agtgcgctgg taaatgctac ggaatggcca 300  
 ccttttctgg tgacatttga tgaggtagag ctgatccact ttragcgggt ccagtttccac 360  
 ctgaagaact ttgatattgg aatcgtctac aaggactaca gcaagaaagt gaccatgatc 420  
 aacgcacatc ctgtagcctc tcttgacccc atcaaggaaat ggttgaattc ctgcgacctg 480  
 aaatcacacag aaggagtaca gtccctcaac tggactaaaa tcatgaagac catgtttgat 540  
 gacctctagg gcttctctga acaaggtggc tggctcttcc tggagcctga ggggtgaggg 600  
 agtgatgctg aagaagggga ttcagagtct gaaattgaag atgagacttt taatccttca 660  
 gaagatgact atgaagagga agaggaggac agtgatgaag attatttcac agaagcagaa 720  
 gagtcagact attctaagga gtcattgggt agtgaagaag agagtggaaa ggattgggat 780  
 gaactcgagg aagaagcccg aaaagcggac cgagaaaagtc gttacgagga agaagaagaa 840  
 caaagtctgaa gtatgagccg gaagaggaa gcatctgtgc acagttctggg ccgtggctct 900  
 aaccgtgggt ccagacacag ctctgcaccc ccaagaaaaa agaggaaata acttctgaac 960  
 tbtggccctg agctccatc ttcctccagc caacccctga aaattttaca tgacatatga 1020  
 actgtatttt tctcttctgt ttcatttgaa gttttgccat ttgtgtttat ggggtttagg 1080  
 ggccattttg ttggaccaat ctactcgggg aattccaggc ccaccaggac aggtgccaat 1140  
 ggccccattc agatggcagg ggaggagggt tcttgaaga caggaggagg ctcccgtgt 1200  
 taataaattat tgtttcattc ttctctcttc ctgtcacctt ctgccaagac attgatggct 1260  
 tctgacattc tatttgggtg ctcaaaagtg tatttccaag acagtgtgac aaggtgaccc 1320  
 ttaatttacc gtattcatgt tcttgaccag cacattcaat cctccaactc accctactgc 1380  
 catgaccttc cgcacacctc taagttttat ctttgcaata ctcaaggcttc tcggaattct 1440  
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 <213> Homo sapiens

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 <211> 2933  
 <212> DNA  
 <213> Homo sapiens

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<210> 166
<211> 2243
<212> DNA
<213> Homo sapiens

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<220>
<221> SITE
<222> (19)
<223> n equals a,t,g, or c

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<220>
<221> SITE
<222> (57)
<223> n equals a,t,g, or c

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<210> 167
<211> 1816
<212> DNA
<213> Homo sapiens

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<220>
<221> SITE
<222> (7)
<223> n equals a,t,g, or c

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<220>
<221> SITE
<222> (14)
<223> n equals a,t,g, or c

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<220>
<221> SITE
<222> (37)
<223> n equals a,t,g, or c

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<220>
<221> SITE
<222> (914)
<223> n equals a,t,g, or c

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<220>
<221> SITE

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945

<210> 169  
<211> 902  
<212> DNA  
<213> Homo sapiens

<220>  
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<222> (870)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (874)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (878)  
<223> n equals a,t,g, or c

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<210> 170  
<211> 1883  
<212> DNA  
<213> Homo sapiens

<400> 170  
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<210> 172  
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 <212> DNA  
 <213> Homo sapiens

<220>  
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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

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aaaggacgtt gaattttgaag ttgtttgtga tgccccggaa aaagtggggs ccaaacaaagc 1740
tgaagtgtct gccaaaagca taaccaatgg gcagtgtatg tgggagcttc agccctccac 1800
ctycacagat tcaaggaggc aagatggacg tytcycatag ttgatycggr tgaagaagrt 1860
ctctcaataa ttgccccgac ttcatgtgaag gaaggaggag gaggccccgc aagaggggaa 1920
tttaggnttg                                     1930

```

<210> 173

<211> 1509

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (1494)

<223> n equals a,t,g, or c

<400> 173

```

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agggtcgggg agcgcggggc tgtggccctg accagccctc tctcgtgcrj gttccaccoc 120
gatgcagggtg gtcacgtgct tgacgcggga cagctacctg acgcactgct tctccacaga 180
ctctcatggct gtgctgtcct ctctggaaac cagccctctg ccggagcctg ttgacaagga 240
ctctactctcc gagtttggga acaagaccac agggaaagatg gagaactacg agctgatcca 300
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tgtggcccaa aagatggctg agccagagaa gcccaccagc ctacgcatcc tgcgtgtactg 420
cgaggccttc ctgctgggca tgccaccccc tgggtgctgc aggggcccccc tgcgcgccaa 480
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aggggacctg gagctgccag caccaaagct gattctctgt gcctgtatct tctatccaa 1440
taaagcagag tttgacaccc tcaaaaaaaaa aaaaaaaaaa aaaaaaaaaa attnctgcgg 1500
cctcaaggg                                     1509

```

<210> 174

<211> 3173

<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (3119)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (3121)  
<223> n equals a,t,g, or c

<400> 174  
tcgaccccas gcgtccgtgc ttttccacag aaggttagac cctgaaagag atgggtcagc 60  
accacctaag gatccttgctc ctttgcctgc aaacctggcc ggaagcagct ggaagaagact 120  
cagaaattctt cacagtgaat gggatctctgg gagagtcagct cactttccctt gtaaatatccc 180  
aagaaccacg gcaagcttaaa atcatctgctt ggcattcttaa aacatctgtt gcttatgttaa 240  
caccaggaga ctcagaaaaca gcacccgtag ttactcttgac ccacagaaat tattatgaac 300  
ggatacatgc cttaggctcgg aactacaatc tggctattag cgatctgagg atgggaagacg 360  
caggagacta caaagcagac ataaatacac aggtctgatcc ctacacacc accaagcgct 420  
acaacctgca aatctatcgt cggcttggga aaccaaaaat tacacagagt ttaattggcat 480  
ctgtgaacag caccctgtaat gtccacactga catgctctgt agagaaagaa gaaaagaatg 540  
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ctgagggacca agagctgact tacacgtgta cagcccagaa cctctgcagc aacaaattctg 660  
actccatctc tgcccggcag ctctgtgcag acatcgaat gggcttccct actcaccaca 720  
ccgggttgctg gagcgtgtctg gctatgttct ttctgcttgt tctcattctg tcttcagctg 780  
tttgtttctg ttgtgtcaag agaagacaag atgctgctcc aaagaaaacc atatacacact 840  
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coaatactgg caggttccct ggatccagat cttctctgccc caactcttac tgggagattg 1140  
caaaactgcc catctcagcc tgtaagcaaa gcaggaaaacc ttctgctggg catagcttgt 1200  
gcctaagtgt acaaaatggat gcataacctt cctgaaatga cctccctctg aatgaatgac 1260  
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caaaagaccta gagaactcaga gttaagctg aggcagagtgc ccgccacctt atccagctccc 2160  
acaaaagact caccagcagc ctacacagg cattaaactc cctcaatgag gaagaatcat 2220  
tcacaactgc gcaagacact catatgatca tttaaaggaa tgtttccctt atgtgtttag 2280  
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caactaccat tagcactatg ttaggagctg caaggcccca aagtagaaga ttgtcataat 2460  
tctctgctct gtgtagtcca ggagacaatt ccagcacaga cactacagtt aacgtctgaac 2520  
tgccactgca agtaaatgca tgaacagtca gaaaaatacc ttatgagggg gcagggcttc 2580  
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00002171 061801



```

aagtgcagaga agcatgaaaa atgagcaggg gccctggatca gtgggggtgta ttcagagcac 2700
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ccagatgtgt gccccaccc catgtccatt tacatgtcct tcaatgccca cctcaaaagg 2820
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gaagcckgct ggggtgggtg ctcacgcctg taatcccaac actttgggag gccaaaggcag 3060
gcggatcacc tgaggtcagg arttcagat tartctggcc aacatggtga aaccccatnt 3120
ntactaaaaa tacgaaatta gccagggtgt gtggcacaca tctgtagtcc cag 3173

```

```

<210> 175
<211> 991
<212> DNA
<213> Homo sapiens

```

```

<400> 175
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tgaagttaca gtgtgtttcc ctttggctcc tgggtacaat actgatattg tgcctcagtag 120
acaaccaccg tctcaggaga tgtctgactt ccacagacat gcccatata gaagagagtt 180
tccaagaaat caaagagacc atccaaagcta aggacacctt cccaatgtc actatcctgt 240
ccacattgga gactctgcag atcattaaag ccttagatgt gtgctgctg accaagaacc 300
tctctggcgt ctacgtggag aggggtgttca aggatcatca ggagccaaac cccaaatct 360
tgagaaaaat cagcagcatt gccaaactct ttctctacat gcagaaaaat ctgoggcgaat 420
gtcaggaaca gaggcagtgt cactgcaggc aggaaggcac caatgccacc agagtcatcc 480
atgacaaacta tgatcagctg gaggtccacg ctgctgccat taaatccctg ggagagctcg 540
agctgtttct agcctggatt aataagaatc atgaagtaat gtccctcagct tgatgacaag 600
gaacctgtat agtgatccag ggatgaacac cccctgtcgg gtttactgtg ggagacagcc 660
caccttgaag ggggaaggaga tgggggaaggc cccctgcagc tgaagtcacc actggctggc 720
ctcagggtgt ctatctccg ttgaaaatag ccaaaaagtc tactgttgta tttgtataat 780
actctactct ctgaaaaggc ctgcaggcca tctgtggagt aaagggctgc cttcccatct 840
aatttattgt gaagtcatat agtccatgtc tgtgtcttga gccaaagtat atccctgtat 900
acacattgta ctgagtggtt tttctgaata aattccatat tttacctaaa aaaaaaaaaa 960
aaaaactoga gggggggccc gtaccaatt t 991

```

```

<210> 176
<211> 1290
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> SITE
<222> (1253)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (1257)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (1259)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE

```

```

<222> (1266)
<223> n equals a,t,g, or c

<400> 176
acagccctct tgggagcctg agcccggtc tctctactca cctcaacccc caggcgggccc 60
ctccacaggg cccctctcct gcttggacgg ctctgctggt ctcccgtctc cctggagaag 120
aacaaggcca tgggtcgccc cctgtctgct cccctctctg yctctgctgw gccgccagca 180
ttcttgacac ctrgtggctc cacaggatct ggtccaagct accttttatgg ggtcactcaa 240
ccaaaacacc tctcagccct catgggtggc tcttctggaaa tccccctctc tctctattac 300
ccctgggagt tagccayagy tcccracgtg agaatatcct ggagacgggg ccacttccac 360
gggcagtcct tctacagcac aaggcccgct tccattocaa aggatattgt gaaccggctc 420
ttcttgaact ggacagaggg tcaggagagc ggcttctctca ggaattctcaa cctcgcggaag 480
gaggaccagt ctgtgtatct ctgcccagtc gagctgggaca cccggagatg aaggaggcag 540
cagttgcagt ccatcaaggg gaccaaactc accatcaacc aggtctgtcac aaccaccacc 600
acctggaggg ccagcagcac aaccaccata gccggcctca gggctcacaga aagcaaaagg 660
cactcagaaat catggcaccct aagtctggac actgcatcaca ggggtgcatt ggcgtgctgt 720
gtgtctaaaa ctgtcatttt gggactgctg tgcctctctc tctgtgtgtgg aggagaagg 780
aaggtagcag gggcccaagg agtgacttct gaccaacaga gtgtggggag aagggatgtg 840
tattagcccc ggaggacgtg atgtgagacc gccttctgag tctccacacg tctgtcccca 900
ttggcaagat acatggagag caccctgagg accttataaa gccaaaaggc caaggcagaa 960
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gcatttcggg gtctgttatt atagcagtgcc aaagagttcc tttactctcc ccaaggagtgg 1140
aaaaataaat ttatttctgt taccatacac ccttctcttc ctgtctccac ttttccaatc 1200
tgtatgggtg ctgtcttcta tggcagaagg ttttggggaa taaatagcgt ganatgntnc 1260
tgactnaaaa aaaaaaaaaa aaaaactcga 1290

<210> 177
<211> 2290
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1011)
<223> n equals a,t,g, or c

<400> 177
tggggccctt tttggatgct ctgggtgttt ttggcaagag ttacaggatg tcaagtgtgg 60
ggagctcagc accttctgct tggaccagtg aaggctgttc cagaccagggt gcttccagac 120
atttccaggc tccaggagag aggtctggag ccccccacaga aagcacaggga aattgcaaaa 180
aaaaaacagt cttttttttt tttttgtctt ttattatgaa aacaaaaacaa atgccccagg 240
agaaggggtcc atgattacca gaacacatcaa agagtacttt ctaccatttt tatctgtgtg 300
tgttgaggcc agcattgcga taaacaagct aaactactta cattggagtc attttcagta 360
actgacattt acaggaatat actagaaacg gcactaaaaa gttaaagaaa agttacggtg 420
aacttgcatt cacatcatat agaaaagtaa cattttaaata ataaaaaaga aaaactctct 480
ggagcattta tggcagattt aaggaacagt gctactctgg atgtgacaaa ttctgtatgt 540
gggtgttact ttttcccaaa agactgtcag aggcgttgagt gctgcaaaaag aacaacaaac 600
aaaaacaaac cacaaaaaaa tgtgtcttcc agtttgttaag caagatgaca ctgcccacaa 660
caaaaggggg tctggagttc aggttcacgc cgaagcctgc gccctcgccc tccagggggtc 720
atctcagagt ttctcaaatc caattccgac acacgacttg tcaactactcc tctcccttgt 780
aaaaaagcat gttagaagct gccctacagg gggacaattct aattgaatga 840
cgcgacgctt ctaatacaga agaaaacggg gtgactgtca cctcagccc gccagcaagg 900
cgcgtcagga agtcattaat ccttcgaaac tctgaaaaaga aaccagttgt gaagtctgga 960
cagaaaagctt taaaaaagtg acagcaccaa tgcagctgct cagtgtatcc nccgtgggct 1020
gtcagggctca gtggcttctt tctagatgaa aggagcagag gcgagccgac gccacgtca 1080
cagagaacca gccgagaagg aaaggcccca cgatgtctcc tgtgcgctgc cccacagcc 1140

```

```

ggccgctccc cgcagggctc acacaggcag caccctcactg cctctgctgct ggagggggcat 1200
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ctgtctgggc agcagcttac caaccagcct gcgtgaagac ctgtcaactg tcgtgtgtga 1320
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acctacatct gtaagggtca gtggactctg aatcaatttt atggttgttt taaaaaccac 1620
gtgtattagg ataactaatga tagtccctat atccatccag aaatgctggc agaaagcact 1680
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cctccacccc tggggagggc agacaggctc gggarggctt ggcacggcca ctggaggctg 1920
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tttacaatag aaagttaaaa atcaagactt agatttacta tacatttttt ctctcagatt 2160
acaaagttta tattatataa ctgggggtcc ctaaatgtat ttcttttaaa acagttctta 2220
agagaccaga agtgaatata aaagaactaa acaaaataaa aaattagaat gtgctgtagc 2280
tgaaagctgt 2290

```

```

<210> 178
<211> 549
<212> DNA
<213> Homo sapiens

```

```

<400> 178
ggcacgagcc atgcctggcc tctccttgat tcttacagtc actttgttgg ctgtttctga 60
ctcagcagct acctgcattg tggccaaaagg atgacctatt cctctctcagg agggcaaaaa 120
tgttgaatag tgtctgtcca gcctctctct catgggctac cactctgccc accgtgtgta 180
atcagtaaca accaggagag aagctgctgt aactgacctc tgggaaactcc ctgggagtgt 240
ttgggtgacg aatgtagtag gcatacacgt ggttgcgtgg atctggggccc tctctgatgtg 300
agtagagagg taaaaggcca ccattctcct gaactctggg gaactcatcc acaaaagaa 360
tgtttccaag atgctttctga agattgccta aaaaatagcg gtttccaccc cgtgtaattgc 420
atccattcta gaatgtctct tcaccaggac cagagaactg atttacagaa gtgacatgaa 480
aacatttccat cccagaattt gcagttagct aaataaagtt tctagtctatt aaaaagaaaa 540
aaaaaaaaa 549

```

```

<210> 179
<211> 1509
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> SITE
<222> (517)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (1509)
<223> n equals a,t,g, or c

```

```

<400> 179
ggcacgaggg ctcattcatt ccgcgcgggg cctgccagac acctgcggcc ttctgcagcc 60
gcccgccgca tccgcgcggc cagcccccag catgtcgggc ccagacgtcg agacgcgctc 120

```

```

cgccatccag atctgccgga tcatgccggc agatgatgcc aacgtggccg gcaatgtcca 180
cgggggggacc atccctgaaga tgatcgagga ggcaggcgcc atcatcagca cccggccattg 240
caacagccag aacggggagc gctgtgtggc cgccttggct cgtgtcgagc gcaccgacatt 300
cctgtctccc atgtgcatcg gtgaggtggc gcatgtcagc gggagatca cctcacacctc 360
caagcaccct gtggaggtgc aggtcgaacgt gatgtcggaa aacatcctca caggtgccaa 420
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ggtcctcgag gtgcctcctg ttgtgtattc ccggcangag caggaggagg agggccggaa 540
gcggtatgaa gcccgaaagc tggagcgcat ggagaccaaag tggaggaacg gggagatcgt 600
ccagccagtc ctcaacccagc agccgaacac tgtcagctac agccagtcca gcttgatcca 660
cttgggtggg ccttcagact gcaccctgca cggcttctgc caccggagggt tgaccatgaa 720
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tgtagggtat ggggaagaaac cagcaccact aataaagctg ctgcttggct ggaaaaaaaaa 1440
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1500
agaaaaaaan

```

```

<210> 180
<211> 1316
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> SITE
<222> (221)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (574)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (1260)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (1291)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (1301)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE

```

09882171.061301

<222> (1313)  
 <223> n equals a,t,g, or c

<400> 180  
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 ccaaccccacg tccggcgccg ggcccccagc tcagttccag cgccaaacgc agcaccggct 120  
 gcgggtccgcg tcccgctgcg ggctccagcg tgcattccca gacctcgccg cagcagcgccg 180  
 tgcactgtcg gctcctcgcc agaccccgcc ctcagcgcaa ntccagcgca gaccccgagc 240  
 cccgctctgc ctgtgtctgc tcttcacggg ccttcccccg gcggccgcgt ggtcaggctg 300  
 caccocagtc ttttggcctc cattgtggag agctacgaga gacgcacaag ggggtgctgc 360  
 cgagttatcg ggacccctgt gggaactgtc gacaaactc cagtggagggt caccacttgc 420  
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 ccccaacccc atccacctca ctgtggagac aagtctccag aacggccgca tgagcatcaa 660  
 agcctacgtc agcactttaa tggggagtccc tggggaggacc atgggagtgga tgttcacgcc 720  
 tctgacagtg aaatacgcgt actacgacac tgaacgcacg ggagttgacc tgatcatgaa 780  
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 gtgtgtgact ctaataaacg gagcctacct tttgtaaat aaaaaaaaaa aaaaaaacn 1260  
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 <212> DNA  
 <213> Homo sapiens

<400> 181  
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 ttatgggggt ggggactaga attggatgct tcaaaaacct caccgtgtgg ccaacaagtt 180  
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 ccatcttatt gggacctgaa ctttgaagac cacamtattg aagagggcgt gcttaccygt 300  
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 gkkggggarzm cmrggggtyt scaawttcsk kggcmwccyt ttagggttaar rrggggkgtw 420  
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 gtctgtgtcc ttctcmacc ctaaccctag tagttctctc actaaacttc tcaactaaagt 540  
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 tcagttgaat gcctgtcgtg agcttttcca tctgtgtgag ctcccgcttc taataattcc 660  
 aggttttgta gcgtggagga gaactttgat ggaagagaaa ccttcccttc tgcattgtta 720  
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<210> 182  
 <211> 791  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (315)  
 <223> n equals a,t,g, or c

0000271-051001



<210> 184  
 <211> 1596  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1571)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1577)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1588)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1596)  
 <223> n equals a,t,g, or c

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 caccaccacc atgttggctg caaggctggt gtgtctccgg acactacctt ctagggtttt 180  
 ccaccaccgt ttccaccaagg cctccccgtg ttgtgaagaat tccatcacga agaatacaatg 240  
 gctgttaaca cctagcaggg aatatgccac caaaacaaga attgggatcc ggctggggag 300  
 aactggccaa gaactcaaaagg aggcagcatt ggaaccatcg atggaaaaaa tattttaaatt 360  
 tgatcagatg ggaagatgggt ttgttgcctgg aggggctgct gttggtcttg gagcatttgtg 420  
 ctactatggc ttgggactgt ctaatgagat tggagctatt gaaaaggctg taatttggcc 480  
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 aagtttgagaa gataagaaca atgtcatcat attttaaatt tccggttaatg tgatgcctca 1320  
 ggtctgcctt tttttctgga gaataaatgc agtaaatctc tcccaaataa gacacacatc 1380  
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 aaaaatttagc aaacctgtgt ttgcatattt tttkaggagt cagmmtawtg taattaragc 1560  
 attccagtaa nagtgtnttt aaagtgtgntc tataatn 1596

<210> 185

00002174-061004

<211> 2293  
 <212> DNA  
 <213> Homo sapiens

<400> 185  
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<210> 186  
 <211> 1212  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1212)  
 <223> n equals a,t,g, or c

<400> 186  
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<210> 192
<211> 1923
<212> DNA
<213> Homo sapiens

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<220>
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<223> n equals a,t,g, or c

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<400> 192

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<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (3047)

<223> n equals a,t,g, or c

<400> 194

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0988271-061501

3054

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<220>
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<222> (89)
<223> n equals a,t,g, or c
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[illegible]

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<220>  
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<220>  
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 <223> n equals a,t,g, or c

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 <222> (1286)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1290)  
 <223> n equals a,t,g, or c

<400> 196  
 ggcacgagga gggacaggga gtgggcaagg ggaagaagca gcttatttga ctaaccagcc 60  
 cctctgtgggt ccaccagcgt cttggcttgg tgggagggct ctcaatcagc agggcccccag 120  
 kagggcaaga agaagtgggg caaagcctgg cgctcgggcg cggtcgggca agcctttgcma 180  
 tctggagcca cgctcctcc aggccatgct ccttgaactt ggaaatgtca accggagccc 240  
 ttaacaccag ccctccagca tctaataagac ttgaatctac tctaaccgaa tatttaatcc 300  
 aacctcaact acattgtagc tcagtccaac gactaacctt gaaatggggg tgttccagcc 360  
 ttcagcgaga tggccaagcg gtccccctgg ggctgtggca gcgggcttat ccttctctgt 420  
 tgccaacctt gccgtccgac ctccctccgc ccatgcggt gaccccgctc gtgtctgtgt 480  
 ctgtccatct gtgtgagtc agctaaaaag acaaaacaga acccggtggg ccagctcgga 540  
 aggtgcgtgg agaaggctcc gacgtctccg aagtgcagcc cttgggatgg cattccgttg 600  
 tgtgccttat tcttggagaa tctgtatcgc gctgcgctat aagaaatata gcctcttctt 660  
 gctgtattaa aaggactttt aaaagcaaaa aaaaaaaaaa aaaaactcga gggggggccc 720  
 ggtaccacaat tcgccaata gtgagtcgta ttacaattca ctgggcccgtc sttttaacaa 780

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cgctcgtgaac tgggaaaaac cggcggtta cccaacttaa tcgccttgca gcacatcccc 840
ctttcgcag ctggcggttaa tagcgaaaaa ngccgcgcac cgaatcgccc ttcccaacag 900
tttgcgcagc cctgaatggc gaaatggcaa attgtaagcg ttaatatatt tkkttaaaaat 960
tcnccgttwa awtttttgtt taaatcarct caattttttt aaccacaataa gscgaaaatc 1020
cggcacaatcc ccyttatttaa ttccaaaaaa ataaaccsaa aawggggttg aattttttkt 1080
ttcccaaytt ttggaacaaa awtyccccc ttttaaaaaa gttggaaccc ccamccytcc 1140
aaaggggaaa aaacsytttt ytggggggna anggggcccc cntactttna acayccccc 1200
ccaaacaaatt tttttggggg gtccnnaaag gtccccctaa aanccttttt cggaaaccna 1260
agggganccc cccattttaa attttnggtt

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<210> 197
<211> 582
<212> DNA
<213> Homo sapiens

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<400> 197
ggcacgaggt aatttttacc agaaatttcc agagcattat gtaggtagaa aaaaatgcaa 60
gcaagcttgt aaagatcttg gatcccatata tatagtatgt atagctgaaa tctgtaatcc 120
aatcactttt tctcttttat cctctaaacca aaaaattgtt taattttgca tcccaaatgt 180
ttttaatctt tgtatatatt ttaaaaatcc ttttctcctc atcattgcct tttttgtgtg 240
tgtaaataga cttacttgca ctttgaagat gagttactcc ttgtcatctt acaaatatgt 300
gatagtgtaa ttttcataac agatgtcagt ttgtaaccaa gaattgggtg tttgtttata 360
agaaaaaaac tggcttcatt tctgtgaaat tgctctttga aaatttcttt ttacacgtgt 420
aagccaactg agataccgtg atggtgttga tttctttcaa tgatgcttac catctatttt 480
agccactgag ccttttatta ttgtctatt tgtaaagtgt atttgtctta actcatattaa 540
taaatatact gtttatctgt ttctgaaaaa aaaaaaaaaa aa 582

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<210> 198
<211> 1020
<212> DNA
<213> Homo sapiens

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<220>
<221> SITE
<222> (86)
<223> n equals a,t,g, or c

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<220>
<221> SITE
<222> (87)
<223> n equals a,t,g, or c

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<220>
<221> SITE
<222> (107)
<223> n equals a,t,g, or c

```

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<220>
<221> SITE
<222> (978)
<223> n equals a,t,g, or c

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```

<220>
<221> SITE
<222> (990)
<223> n equals a,t,g, or c

```

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<210> 200
<211> 332
<212> DNA
<213> Homo sapiens
```

<400> 200  
 gtgatacaag gaagggtgat catcatctgt caccatgcaa ttctctgtca cagcctttct 60  
 gttggtgcca ttctctggctc ttgtgatgt ccccatatcc ctaggcttct cccctctcta 120  
 gaagggtctc ttgatagatt agaaaaataag aatgagtac atttccctatg tgcataaag 180  
 aaggagccac aagacatgtc ttttaataaa aaggacagtg tccatccttt tagctgcga 240  
 atagaacctt gggtctatcc tctggagct agscttaaa acagcttctg tgtttctsat 300  
 tkgtctcart gttttgcaa gggtttatcc gg 332

<210> 201  
 <211> 376  
 <212> DNA  
 <213> Homo sapiens

<400> 201  
 ccagggaagc cccargcctg tcttgaattg acatcagtcg ttccctgaac tgcctcccc 60  
 accctctggc attatccag gaaacttatg tttcttagaa gctaagcagc tgcctggact 120  
 cagggaactg tgcaggtagg ctgagtgcca gctcagctct agaaggtctc tgaagatctg 180  
 gactgaggac cytgctactc cccaagccag agcccatcag ccaggcctgc tgtgagccac 240  
 ctgcctgtgc agtgcctgag tcaaccaaag gctggcaagc tctgggcctc atttaaggga 300  
 ttctgatgag ccgatgggccc ctggaggcag cccattaaag catctgctc gtttttggaa 360  
 aaaaaaaaa aaaaaa 376

<210> 202  
 <211> 741  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (361)  
 <223> n equals a,t,g, or c

<400> 202  
 tcttgaagag tgtacagtag aggattatta taatgaaagt ttatatcaac aggggttctg 60  
 tgggtctctga tatattataa gcaaaagaga ttggtaaaagt gccacagtat tccagataac 120  
 ttctcagttg ogggcctttct tctcgtctct taatttgaaa cctagatata tgcagtaaaa 180  
 actaggagaa tgactttttac ccttggggac agccaaagtt ttgttgataaa cctatttctc 240  
 agcatgcctt caggaaagtgt tgcagacccc tagatttgta aggacccact gttcttctgt 300  
 tgtacagact ccttgaacca ttgttcagag gaccaatgtc acatcgcttc atgggcatgg 360  
 nccatgggag catctgggtg atayctgtct acagatttgg ctcttctgag aggtcgatac 420  
 acaaggcctc tcttccacat gatcatttgc aaacctcccc cagccccctac catccaatgt 480  
 ggaaggaaaa caagaactgc ctgaagaaga gtccaagcta cagatacaca gcgtgtgcac 540  
 tggcgctgtc accttctctc tcccacttct gtatcctcag agatgtctgc tggatgtttc 600  
 cttaacctca gctgacttcc ctgtgaatgt ctaatgctag ttcagggcct ccaggcattg 660  
 atttgtacag tggtaactcc caatgaggct tctgttatca ttgtgtgtgc ttttctgtc 720  
 attaaaaaag atgatttttc c 741

<210> 203  
 <211> 1192  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (93)

<400> 205		
ggcagcagcgc	caagctgctgc	gocgcgcacac
gggaagctctgc	gggaacaaagtc	aactctcatgt
atgacatctcga	cgacgaatctc	agagcgtcac
tggcggggaaa	gctggatctgct	ctgactgaagc
tccgaagaacc	ggcgagcagct	ccaaagtactc
ccagctactct	agtgctgtggac	atcgtctcttc
ccagtgcgaag	gaccaaagggt	ggctctggctt
ggggacagctct	ctctaaagtgt	ggagggctctc
tgcgcgccac	ctctcatatcc	ctcatcaaaa
		acactctctac
		tatctctcta
		tggacacagct

#	400- 206	
1	acaaacatcac	tcgcaggaag
2	gccatcaacg	cgcttcgccca
3	tccatgggtg	agattctccaa
4	agctcagacac	ggggccctgga
5	actcagctcgc	ttaccagctgc
6	aagttagctgg	ataccacgnag
7	atnctgctctc	tgccactccn
8	aaagggggggc	tgctgggttggc
9	taaagtgggk	agctctctggc
10	tgcataccctc	caccataaaa
11	tacaagtgc	gggactctgga
12	cccgagatcca	ggatctctgg
13	gaggctgggg	cggggcygga
14	ttccagagct	cgagagaaac
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100		

cttatctcttg ta

852

<210> 207  
 <211> 1354  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (465)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (794)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1344)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1349)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1350)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1352)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1354)  
 <223> n equals a,t,g, or c

<400> 207  
 gattcggcac gaggtctgct ggagcaggag aagtctctrg cgggctgggc actgggtgctg 60  
 gcasgarctg gcattggact catggtgctg catgcagaga tgctgtggtt cgggggggtgc 120  
 tcgggtgtca atgccactgg gcacctttca gacacacttt ggctgatccc catcacattc 180  
 ctgaccatcg gctatgggtga cgtgggtgccc ggcaccatgt ggggccaagt cgtgtgcctg 240  
 tgcactggag tcatgggtgt ctgctgcaca gccctgctgg tggccgtggt ggcccggaag 300  
 ctggagttaa acaaggcaga gaagcacgtg cacaacttca tgatggatat ccatgatacc 360  
 aaagagatga aggagtcgc tgcccagtg ctacaagaag cctggatggt ctacaaacat 420  
 actcgcagga aggagtctca tgctgcccgc aggcacacgc gcaanctgct ggccgccatc 480  
 aacgcgttcc gccagggtgc gctgaaacac cggaagctcc gggaacaagt gaactccatg 540  
 gtggacatct ccaagatgca catgatcctg tatgacctgc agcagaatct gagcagctca 600  
 caccgggccc tggagaaca gattgacacg ctggcgggga agctggatgc ctgactgag 660  
 ctgcttagca ctgccctggg gccgaggcag ctcccgaaac ccagccagca gtccaagtag 720  
 ctggaccacac gaggaggaac caggctactt tcccagatc tgaggtgggt gacatcgctt 780  
 ctgcccactcc tgancccgag cctgaacaaa gcacctcaag tgcaaggacc aaagggggcc 840

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ctgctcttggg gtgggttggc ttgctgatgg ctgctggagg ggaagctggc taaagtgggk 900
aggccttggc ccacctgagg ccccgagggtg gaacatggtc accccactc tgcataccct 960
catcaaaaac actctcacta tggctgctatg gacgaacctcc agctctcagt tacaagtcca 1020
ggcgactgga ggcaggactc ytgggtccctt gggaaagagg gyaactagggg cccggatcca 1080
ggattctctgg aggtctcagt taccgctggc cgagctgaag aactgggtat gaggctgggg 1140
cgggggcttga ggtggcgccc cctgggtggga caacaaagag gacaccattt ttccagagct 1200
gcagagagca cctgggtgggg aggaagaagt gtaactcacc agcctctctg cttatctctt 1260
taataaattg taaagccaga aaaaaataaa aaaaaaaaac aaaaaactcg agggggggccc 1320
agaccacaac tccctatagt aagncgcchh anan 1354

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```

<210> 208
<211> 1378
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> SITE
<222> (72)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (402)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (1371)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (1376)
<223> n equals a,t,g, or c

```

```

<400> 208
tccccagggtg cacagccagg gccctcctgt ctgcaggaga attcacagct ggtgtggggac 60
tcagccccta gncatttcaa agccttaagt ttgtaatcat atctttacgtg ttgaagacct 120
gactggagaa acaaaaatgtg caataacgyg aattttatct tagagatctg tgcagcctat 180
ttctgtcaca aaagtatatg tgtctaataa gagaagctctt aatggcctct gtgaataatg 240
taactccagt tacacggtga cttttaatag catcacgtga ttgatgaaa ggacgtcaaa 300
caatgtggcg atgtcgttga aagttatctt tccgcctctt tgcgtgtggtc atbtgtctct 360
gcagaaagga tggccctgat gcagcagcag cgcagctgtg anataaaaaa taattcacac 420
tatcagacta gcaaggcact agaactggaa aagaccacag aaaaacaaaga atccacacct 480
ttcatcttac aggtgaacaa actgtgatga tgcacatgta tgtgttttctg aagctgtgag 540
cacgtgaaga aaatgttaaat ttgccattat taggaagtgc tgggtggcagt gaagaagcac 600
ccaggccact tgaactccag tctgtgtccc tgtctacacc agacaacaca ggaagctgggt 660
cagatctccc tcagctgctt acaaaagtct ctgcaacaga aagtgctctac aaagctgcct 720
tctcggatac tgaagggtcg agttttctga actgcactga ttttattgca gttgaaaaaa 780
aaaaaaagct attccaaaga ttccaagctg ttctgagaca tcttctgatg gctttacttc 840
ctgagaggca atgtttttac ttatgcata attcatttgt gccaaaggaat aaagtgaaga 900
aacagacact ttttaatatg aggtctctct ggaagagacc taaattgaaa agagaaaaat 960
gtgacaattt tcatattctc attcttaaaa aacactaatc ttaactaaca aaagtctctt 1020
tgagaataag ttacacacaa tggccacagc agtttgtctt taatagata gtgcctatac 1080
tcactgaatc ggtttactac tactgccttt aaaaaaaaaa accagcatat ttattgaaaa 1140
catgagacag gatttatagtg ccttaaccga tatattttgt gacttaaaaa atacatttaa 1200
aactgtctct ctgctctagt accatgctta gtgcaaatga ttatttctat gtacaactga 1260

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```
<210> 209
<211> 1166
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> SITE  
<222> (3)  
<223> n equals a,t,g, or c
```

```
<220>  
<221> SITE  
<222> (12)  
<223> n equals a,t,g, or c
```

```
<220>  
<221> SITE  
<222> (79)  
<223> n equals a,t,g, or c
```

```
<220>  
<221> SITE  
<222> (650)  
<223> n equals a,t,g, or c
```

```
<220>  
<221> SITE  
<222> (1154)  
<223> n equals a,t,g, or c
```

[illegible]

<210> 210

<211> 697  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (459)  
 <223> n equals a,t,g, or c

<400> 210  
 tactttctagg attataagga attaacattg agatgacatt tccattttgag aagggaaaaa 60  
 gttgcttttca gtgccttttta ttgtatttctt ggagagagca gactcgcacs aacattcaaac 120  
 cccagcgtcg atatgacagt aatcctcaga ggcagagccc agcacaaaaac agcaatgcta 180  
 gaaagtttaca attggaagt ttcttgccag ctctgggaat gacactgcaa agctgatgcc 240  
 agaaactgcc agrgtaattc tcttcattac tgctctaccc acccacttcc agctccccc 300  
 attaaactagt gcagttgact aattctctttt accctttatca tttarggtga xgcattggc 360  
 aaaaaactctc gactttgcca tataagggtc gtgggtctct gtgggtccctt ggataagagg 420  
 catcaccatt atctgggaac atgcagtaaa tgcagattnt tcatcttctc cccagacctc 480  
 ctgagttaga aattccacaag ttctccaggt gatctcatac atgctaaaagt ttgagaacca 540  
 ttgagtaaaag ttaatgcatt aagaagagat tagataggga tgggtggccta tcttctcata 600  
 gtttccctgt taacaagaaa gtccagaggtc agttgatcac acattagatt attttattgt 660  
 aaaactaaaa aaaattaaaa aaaactggag ggggggcc 697

<210> 211  
 <211> 932  
 <212> DNA  
 <213> Homo sapiens

<400> 211  
 cgtgagtcac ctctctatag tgggcgtggc cgaggccggg gtgacctgc cgaagcctcc 60  
 gctgcagcaa accatgttca aggttaattaa aagggtccgt gggccagcca gcctgagctt 120  
 gctcaccttc aaagtctatg cagcaccaaaa aaaggactca cctcccaaaa attccgtgaa 180  
 ggttgatgag ctcttactct actcagttcc tgagggtcaa tcgaagtatg tggaggaggc 240  
 aaggagccag cttgaagaaa gcatctcaca gctccgacac tattgcgagc catcaccaac 300  
 ctgggtgctg gaaacgtact cccaaactaa gcccaagatg caaagtgttg ttaaatgggg 360  
 gttagacagc tatgactatc tccaaaaatgc acctctctga ttttttccga gacttgggtg 420  
 tattgggtttt gctggcctta ttggactcct tttggctaga ggttcaaaaa taagaagct 480  
 agtgtatccc cctgggtttca tgggattagc tgctctccct tattatccac aacaagccat 540  
 cgtgttttcc caggtcagtg gggagagatt atatgactgg ggtttacgag gatataatg 600  
 catagaagat ttgtggaagg agaactttca aaagccagga aatgtgaaga attcactctg 660  
 aactaagtag aaaaactycat gytctgacct cttaatcagt tatrggtaaa cattggaaac 720  
 tccatagaat aaatcagtat ttctacagaa aaatggcata gaagtcatga ttgaatgtat 780  
 taaatggctt ttcttcttca ggaaaaacta gaccagacct ctgttatctt ctgtgaaatc 840  
 atcctacaag caaactaacc tggaaatcct tcacctagag ataattgtaca agccttagaa 900  
 ctctctatcc tcatgttgct atttatgtac ct 932

<210> 212  
 <211> 661  
 <212> DNA  
 <213> Homo sapiens

<400> 212  
 gtcattctttt aaataaaagc ttctctgtttt aaagcttttt aaaggagcag accaccttga 60  
 agattccccc taggggttat atgtgtcttaa ttcattttat aaaaaattatt ctgtgtcttca 120  
 ttttaaaagt ttggtctatat agtcagaaat gccttaataa acaaaactatt ttgtatttaa 180  
 ttttagggaag actaaaggga agaaaaatga aaactcagtc tttatgtaag ctccaaggat 240

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attaggcgctt aaagggcgctt tctagtctta tgagaatttg tactactgat ttttatatat 300
tcctgttttt gagatgaaca gatctctggg gaaattgttg agttacaatg gcattttcact 360
gtgatccctc tcaagctcag atcagttcta taacccaatg acaacctgtc tctttgggtt 420
actgtcctgt gaaatgtcag ctcaagtttc ccagaagtgc tgtgtttatg atgagtcaga 480
tgcgttttcc tcgggtgggac agttgctggc cctcttaatt ttggtgtatg tgcttccaag 540
tatctaaacc tccagctctga tctgtatatg ctatcctaac tgtaattgt atatttgatt 600
atgttgatta tcttgcttga aggttcatac ttttcaattt gatagaaata aagttttttt 660
c 661

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```

<210> 213
<211> 592
<212> DNA
<213> Homo sapiens

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<220>
<221> SITE
<222> (394)
<223> n equals a,t,g, or c

```

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<220>
<221> SITE
<222> (545)
<223> n equals a,t,g, or c

```

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<220>
<221> SITE
<222> (566)
<223> n equals a,t,g, or c

```

```

<400> 213
gaaactgaca ttgttaaaaca cactaaaaca gaagtactta cctcttgaag atttaatatata 60
taatggttga catgatacat gtacatgaat ggaatgacca gatgcttatg gtcctacattt 120
tcctttatcc tgttagtatt acccttcctta atccttggttc cttaacatgc taaattccctc 180
ttcagttctt attttctagt gacagaatgc taacatttct tacaccttgg cagaaggaggag 240
agaaatgtgt ttgggggttg gtaactaaat ttttgagtga aatatcataa gatgagaatg 300
gaaagaggga gacacaaaga gttataacaa aaaaacaatg gtttttttag ccatttgact 360
ggctctttaa atagtctaca agacattcac gttnaacatc actttttagt aaataaaaatg 420
tgcccatacta gtatgtgctt caaaagggca aatgtgcttt agtgccctaa gggttaaat 480
tggtcatttg acatcagaga tgttgytaagt attgcactta atacgcacct atttctcaat 540
agtntatttt ttttggttag catttncctt accactaacc ttgttgagata gc 592

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<210> 214
<211> 938
<212> DNA
<213> Homo sapiens

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<220>
<221> SITE
<222> (100)
<223> n equals a,t,g, or c

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<400> 214
tggagtggtc ttccagctga atgaatccta tgtctcgcgt gcagggtggtt ggttttcaat 60
gttcttctca atttttttcc tatttggtctt tgggagtttn ctttgtttgc tcctgtgttt 120
gcccagcttt aataaaaacca ggcgcaaaca aaaccatag cattctgaaa caataggggg 180
cccacattgg acccagatag tcactttaat ggacttcaag aaaaaatctg aatgggaaaa 240

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```
<210> 215
<211> 1079
<212> DNA
<213> Homo sapiens
```

```
<210> 216
<211> 3791
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (3671)
<223> n equals a,t,g, or c
```

```
<220>  
<221> SITE  
<222> (3682)  
<223> n equals a,t,g, or c
```

```
<220>
<221> SITE
<222> (3771)
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<210> 217
<211> 1334
<212> DNA
<213> Homo sapiens

```

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<220>
<221> SITE
<222> (199)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (1265)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (1267)
<223> n equals a,t,g, or c

```

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catccaccag aaga 1334

<210> 218  
<211> 1511  
<212> DNA  
<213> Homo sapiens

<400> 218  
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cagaacaggg actgaacca agccctctgc tctgaagacc cgcctcctga tttcttcat 1380  
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aaaaatgaat a 1511

<210> 219  
<211> 642  
<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (633)  
<223> n equals a,t,g, or c

<400> 219  
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tgtgtgtctg accrygagac ggrccctctc accttggctg ggctgtgtct gggtccttagg 180  
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cgtgaccagc agttctgaag gccatgcctt cagtttccct tgttgacaat tctctccag 480  
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gagctgtgaa cagcaggggg ttgtgtgtct gttctgttct tctgcttgcc gaacttcctc 600  
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<210> 220  
<211> 1241  
<212> DNA  
<213> Homo sapiens

<400> 220  
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aaataggcca gatagtcctc ccaggccctg atatccataa aaggccttggg aatgcattat 180  
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<210> 221  
<211> 504  
<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (35)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (47)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (56)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (489)  
<223> n equals a,t,g, or c

0382171-061601



```

<400> 221
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aaccccaaaa aaaaaaaaaa tccacaaaaa caaaaaaact ataaaaaaga aagaattaaa 120
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tcacctagca acatatctct gccgtctctc ctgctctcat aatgaagaca tagccgattc 240
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<210> 222
<211> 1080
<212> DNA
<213> Homo sapiens

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<220>
<221> SITE
<222> (1026)
<223> n equals a,t,g, or c

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```

<220>
<221> SITE
<222> (1050)
<223> n equals a,t,g, or c

```

```

<400> 222
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rattgaggaa gagtttggaa agaggggagag gcaaggaaag agagctttaa attgaaaggt 240
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ctgccattta atattagctc cgtatttttc tcacgtatat ttacctgtga cttgtatttg 660
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actattatat tattattatt attgtgacat ttgtgaaatac tgtgaagttt tatctcttgc 780
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tggttgtttt tttttaatg ttaccagcac tttttttgta agtttcaact tccgaggtat 960
tgtacaagtt cacaactgtt gtgaagtttg aatatgaagg aataatataa aaaaaaaaaa 1020
aaaccnccgg gggggcccggt tcccattggn cccaaggggg cggttacggg gtcacggccg 1080

```

```

<210> 223
<211> 1258
<212> DNA
<213> Homo sapiens

```

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<220>
<221> SITE
<222> (1226)
<223> n equals a,t,g, or c

```

<400> 223  
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 aatgtacata tattttcagt tggattttgt ctgaaggttc tccagttggc tgactacgag 180  
 atagtgtggc ttccagctgtg ggatatttga gggcaggagc gcttcaccct tatgacacga 240  
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 ttcagcaaca gccagagggt gaaacaggac ctgacagcga agctccacact acccaattgga 360  
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 cgggagcaga ttgaccgggt cagtaaaagag aacgggttca caggttggag agaaacatca 480  
 gtcaaggaga acaaaaaaat taatgaggct atgagagttc tcatgtgaaa gatgatgaga 540  
 aattccacag aagatatcat gtctttgtcc acccaagggt actacatcaa tctacaaaac 600  
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 aattgtctcc tgactactgt ccagttaagg ggcctattgt cacttagaaa agacacctgg 780  
 aacccakgtg cattttctga ttcctgggat tagcctttta catgtgtgtg rctcaccata 840  
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 tgggtactag aagtgtccca gaagtctgt tatttttgaa acttctaacy tcaataataa 1200  
 gtttctcttg tcttgggcat caagantagt tccaattttt tggggccggg cagggttgag 1258

<210> 224  
 <211> 1693  
 <212> DNA  
 <213> Homo sapiens

<400> 224  
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 actattacat acttcatatc taggaaggtt tttttaaaat gacacttaaa acaatcactg 180  
 aaaaacttgat ccacatcaca cctctgtttat tttcctttaa catcttggaag gcttaagctt 240  
 ctgagaatca tgtggcaagt gtgatgggca gtaaaaatcc agagaagatg tttagtagca 300  
 attaaagggt ttttgcacct ttaaggacca gctgggctgt agtgattctc ggggccaagag 360  
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 ttgaattttt gaacagccag ttgaccaatc atagaaaatg ttactttctt tcatattggt 480  
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<212> DNA
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&lt;400&gt; 227

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 <212> DNA  
 <213> Homo sapiens

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2043

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000001-000001



<210> 235  
 <211> 407  
 <212> DNA  
 <213> Homo sapiens

```
<400> 235
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cccaagagga ggccctctaga ctragggagg ggctgggtgac caaggtgtgg tggggctgca      120
tgaractacc agagagacag acattctgga actcaccctg ggggatccag tggatctgcc      180
tatggctctg tccacccagc acctgtgaga tgttccctcat gaggatgcac ttgtgcttct      240
gcaagtattg ctgcagcttc atagtgaact ccaccagcac cagcaatata gyttagctacc      300
tgtggccttg gatctcagcc agcatggctg ggagaggagc carctgggca tgtaccctaa      360
atgctgttac caggaagga ctcccagagt gaagacaagt agggact      407
```

<210> 236  
 <211> 830  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (92)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (543)  
 <223> n equals a,t,g, or c

```
<400> 236
gtattttgatt tcaggctgct aaatgggctc atttagcatt cttcccttga tgtagacatt      60
aaaaaataaaa ctgaatagca ttctttccag gntaaactaat aaagcagaca tgctaagcct      120
ataaatacat cagcactgca gcacacgttt aaggttgcca cggacaagga tcacacaata      180
gagaacactg tagttcgggc tgctcacaag acccagaaca ttgatcagtt tttgttgttg      240
gtttattatt tttctgttaa aaaatttgta aaagtgtgtt ttgcttagat gatattttaa      300
tagctgcgag tgctttggaa ctataaagat gtcactactt aacacacata ccttatgttt      360
tgttttgttt tgttttacac tcagtataaa tcaggagaag ttgaccacac atctagcatt      420
tagaatcttc ttttttattg tcttctaaag atattggatgt tccataaaca gcaacaaaaa      480
agcaacaaaa acatttcaata aatatcactt gatagactgt aagcacctgc ttaactttgt      540
gtnccaaaaa ttttagtgtt atatatatat atatatcac acacacacac atatatattc      600
aacaataaaa gcaaaatata acatgcattt cacattttgt ctttccctgt tacgatttta      660
atagcagaac tgtatgacaa gtttaggtga tccatagcata tgttaaaatt aaattaatgt      720
aaaacagatt aacaacaaca agaaaaactg ctatttgagt gaagtcatgc tttctattat      780
aataacttgg cttcggttat ccatcaaatg cacacttata ctgttatctg      830
```

<210> 237  
 <211> 932  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (256)  
 <223> n equals a,t,g, or c

0033271-001801

<220>  
 <221> SITE  
 <222> (599)  
 <223> n equals a,t,g, or c

```

<400> 237
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agcagaaatg aacttggccc tagacctagg ggataagcaa tggttcttat gtaggccaatg 120
ctacggaaac aaaagagggt aaagagaccc tttttttata cttaattgtac atattattgac 180
tttttgagca agaattgccag aaatagccctt cattcttacc ctgcaaaaata atccagatct 240
gctttctaaa atgrantcag ttctctaaagt gaaacatgca atatttatgc tctgactgac 300
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ggaaaattga tactttttaa gcatattctt ctatgagcac aggtcctcct agtgaactt 480
aatttgacaa aggggtgcat atgcttctct aacctgawtt gtattaaatc tcacagagcc 540
taccttttct cattagggtt rtgatgctca gtatcttctc aagtggccagg cagrgcttnc 600
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gcatttgtga ttgacctgag gcttaaaatc agatgcattg ctggtaagat gaccactgtc 840
tcactatcaa ggcctgtgag agccattttc cagacctgtg attgcccaga acacatagtc 900
cccacgtttc taatttggag caaatctaaa ag

```

<210> 238  
 <211> 2786  
 <212> DNA  
 <213> Homo sapiens

```

<400> 238
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tcagtccccc tcccaacctc ccataatggt ctcaatgggt ctcaacttgc tgggaagcagg 180
ctcccaatag ggagggggst gccctctaca gtctctttga ctgtaagaca ggcctctgta 240
tcagtgagac gtgagagaaa gtcccaggct aatggcagaa atttgcaatt tgaacatgtg 300
tgttttttgt ttgctgaacc tgagattctt tattttattaa cagggaagtct gatttttttt 360
ttttggagtc ttgtgttgta tattttgtgg ggctgggaga gagagatcat atatttttga 420
catgggattc ctccataaac aggtactttg aaggcgaagc ataggggttg aagaagcaca 480
ccagctctcc aaatcatagc tctccagttg aaactgtgtc tccagcatca 540
caaaatcact acaatagcct agtgcctttt tgggaagcct tttagggaag aatgttagtg 600
tcattgttaa tagtatgtct tttagagatt ttacagtggt gaaacttaag aatttttga 660
gggtggagag ggttgttcag aatctaaatt acagatagat gattgtttct tgtgaatttg 720
tttcttttcc tttttttttg tccctaccat ttctttacat ttcccttggg gccctactct 780
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```

0988271-061801

[illegible]

```

caaagtcctc atgggttttg gatttggttt gaattttttt tttttttttt ttttccctcc 300
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atggacattg ctgctcttgg tgggtgtatc taatttttgt gatagggaaa caaatctcttt 420
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tttttgtcaa atgcngcgaag agataactct ttttangaag tagcatatgt gaactataat 540
gtaacagtga ataatttgta aagttcgtat ttcccaacct ctttgggaat t 591

```

```

<210> 241
<211> 2449
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1375)
<223> n equals a,t,g, or c

```

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<400> 241
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gtggggggcgg ggaacccctgg cggactcagg acgcccacgg aggaagccac gcataatagc 180
aaaccggggat cctagagggg cggggcccac ctccagcgcc aggcgcgaac agggccagggt 240
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tgcgaggctg gggaaagggg tggagggggc tgttgatcgc cgcgtttaag ttcgctctgc 480
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agaaaatgcc agtgctaact ctccactctg aattgaagat gaaactcgctg aaaaatgggtg 660
accaaaaacc aaagtgaact agaccgaaga tgatagtgt atgtgatga 720
agatgatgtt catgtcacta taggagacat taaaacggga gccaccacagt atgggagtta 780
tggttacagca cctgtaaatc ttaacatcaa gacagggggg agagtttat gaactacagg 840
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agaagtatag actataaac tctgttattt tctggataat gtttaagaaa tattacctaa 2280
atctgttctt tttgtttagt atgaaaagtt aacttttttt ccaaaaataa agagtgaatt 2340

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09682171-061801

```

tttcatgtta agttaaaaaat ctttgtcttg tactatttca aaaataaaaa gacagcaatg 2400
actttatatc caaaaaaaaa aaaaaaaaaa aaaaaaaaaa agggcgggcc 2449

```

```

<210> 242
<211> 1286
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> SITE
<222> (555)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (1245)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (1269)
<223> n equals a,t,g, or c

```

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<400> 242
tctttttaag gtacagcagg gaagaactgg aaactcagag aaagaaactg cctctccatc 60
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gagattacct ggggcaattg atgttatcgg tcagactata actatcagcc gagtagaagg 180
caggcgacgg gcaaatgaga acagcaacat acaggctcct ttgtaaaagt ctgctactga 240
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gcaagtgcag aaaangaaga acgacataga gaaagacgac acaggggagaa agaggaaaacc 600
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gagcctgtccc ctgaacagga gagcacgaa gctacacctg cagaataggc atgggttttgg 780
ccttttgggt atattagtac cagaagttaga tactataaat ctgtttatct ttctggataa 840
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cagggaatct aaagagctgt gtttagctgt tactatacaca gattatctga gaaaagggtca 1080
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atcacaacaa gcaaccaaag ggccctctct arggctttga ggattaaaac tagtctttat 1200
ccattactgc tgtggacact cttggcttgg tatwtttagg ggggntcctt accttttttt 1260
ggtttttccc acctttttgg ttgggc 1286

```

```

<210> 243
<211> 734
<212> DNA
<213> Homo sapiens

```

```

<400> 243
atggcgagcgc agaaggacca gcagaaaagt gccgagggcg aagggtctgag cggcacgacc 60
ctgctgcgca agctgattcc ctccggtgca ggccgggagt ggctggagcg gcgcccgcgc 120
acctaccgcg cctggagcag ctccggtggac cagcagcgct tctcacgggc ccgcaacctg 180

```

00002171-051001

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gctgtctttt	toggcgccgt	ttacatctct	ctatctgtgc	accttggagt	ccaagcttgt	360
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acccctgccc	atgcccgtcc	tgcacggctct	gctgctcggg	cccacagcgc	cgtcccatca	660
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aaaaaaaa	aaaa					734

<210> 244  
 <211> 809  
 <212> DNA  
 <213> Homo sapiens

<400> 244						
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tgccgaagct	gattccctcc	ggtgcaggcc	gggagtggct	ggagcggcgc	cgcgcgacca	180
tcgggcccgt	gagcaccttc	tgtggaccagc	agcgctctct	acggcccgcg	aacctggggag	240
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aaaaaaaa	aaaaaaaa	aaaaaaaa				809

<210> 245  
 <211> 2201  
 <212> DNA  
 <213> Homo sapiens

<400> 245						
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```

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```

<210> 246
<211> 1661
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> SITE
<222> (1200)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (1536)
<223> n equals a,t,g, or c

```

```

<400> 246
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<213> Homo sapiens

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<222> (214)
<223> n equals a,t,g, or c

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<222> (268)
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<212> DNA
<213> Homo sapiens

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<220>

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 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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 aaaaaaaaaa aaaaaaaatt tgggtgg 506

<210> 253  
 <211> 1348  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <223> n equals a,t,g, or c

<400> 253  
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 <212> DNA  
 <213> Homo sapiens

<400> 254

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<211> 2664
<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>
<221> SITE
<222> {2640}
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> {2652}
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> {2662}
<223> n equals a,t,g, or c

<400> 255
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 <212> DNA  
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ccacaatagt	cttttgacta	ataggagtgt	taagtatggt	aaaaatctat	actggacagt	1980
tacaagaaat	taccggagaa	aagcttgtga	gctcaccaaa	caagggtatt	cgtgtagatt	2040
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gcaggtatat	gttgaaacac	tctgtttcat	ggttgagaca	gaatcagagg	ccatggatac	2220
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catcttgatt	tataagcaaa	acctggaaaa	cttcaaaaaa	aagtgtttgt	gtttatctag	2340
aaaaaatattg	aaaaatattgc	tgttattttt	ggtagaagaa	atcaaatatt	tatagtttat	2400
ttcaatctaa	ataaaattgtg	aatttttgtt	aaagcttagg	cacattattt	tttgtggggt	2460
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<210> 262  
 <211> 2357  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (686)  
 <223> n equals a,t,g, or c

<400> 262						
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aagtggggat	taaatatgga	gtattgtcgt	ggccaggctt	acattgtctc	tagtggattt	120
tcttccaaaa	tgaagatgtt	tgcttctaga	cttttagaga	aatatcccca	agctatctac	180
acactctctgt	cttccctgtc	cttaaatatg	tggttggcaa	aatcagttacc	tgttatggga	240
gtatctgttg	catttagaac	aattggaggaa	gtttgtctct	ttttccatcg	atcaccacaa	300
ctgcttttag	aacttgacaa	cgttaatttct	gtttcttttc	agaacagtaa	aaagaggggt	360
aaagaactga	aggaatatctg	ccattctcag	tggacaggca	ggcatgatgc	ttttgaaatt	420

```

ttagtggaaac tcttgcaagc acctgtttta tgtttagatg gtataaatag tgacacaaat 480
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tttgattttca ttgttactat tgttgttcctt aaaaatgtcc tatcttttac aagagccttc 600
gggaaaaaac tccaggggca aacctctgat gtcttctttg cggccggtag ctgactgca 660
gtactgcatt caactcaacga agtgantgga aatatattga gtttatcatg aattttgggt 720
tgagggaagcc acaaatttgg caaccaaaact tgatatccaa atgaaactcc ctgggaaact 780
ccgcagagct caccagggtta acctggaatc tcagctaacc tctgagagt tctataaaga 840
aacocctaaat gtcccaacag tggagcacat tattccaggaa cttaagata tattctcaga 900
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cacgctgtca gctgagcttc attgttggag aatcaaaagg aaacacaggg ggaagatat 1080
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ttcttgtgta aattctc 2357

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```

<210> 263
<211> 689
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (644)
<223> n equals a,t,g, or c

```

```

<400> 263
acctttctgt gcaaaaagat gttcaagcct ttttttatac ttgcctggcc cttttctctt 60
catttatact agtgagctgc agctctaaga agacctgttc ttttgaatgg agagttagcat 120
caggaaacag gatgtgggtg cgaggcgtgc tctcggctgt tgcagatgtg tgcaccggg 180
agctcttagt ggacagagct agaggatag ttgcactact tccatctctc tctctgtctc 240
cgatttttag ccagaccac aggttaagtt ccagtttttc tctctctctc tagctgttaag 300
gccctttctg ggaatgggtc tcatttctct taatctatta ttgggtcagt tttcctgcatt 360
gtccccagc tccccactc gccaccact ccccacagag atgcctctgt catccgactg 420
gggtcttgac tcccacactg tttacccctc ttgtgtggac gccctgtctc caaaaacctc 480
agcaaacagc ttctccaaat gaagtgttca ctgtcaaggc ctttacaact agcaaacga 540
aaatctacat gctcgtgagg tctcgtgctc attaagatgc aataaatatg taagtacata 600
aaaacagcaa tagaagaaac gtaatgcttt attctcaaat atgnatgtct acatagaaaa 660
gccccaaata ttaagaatg taaggaaatt 689

```

<210> 264  
 <211> 2377  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (566)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (588)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (902)  
 <223> n equals a,t,g, or c

<400> 264  
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 atctctcttc tagtctctcac tgtgataggg gacgcccccg gcgctgtgct atctctgtgccc 120  
 ggccacccttc gcgttgggtt tgcctgctgta ctgggtggcgc ccctgacgcgt ggctgtctccc 180  
 tcttgaaggga agcctgtttc tgatgaacct gctgacagcc atcatctaca gtcagttccg 240  
 gggctacctg atgaaatctc tccagacctc gctgtttcgg aggcgggtgg gaacccggct 300  
 gccttttgaag tctatctctc catgggtgggg gagggaggag cctccctca ggcagttggg 360  
 gtgaagcccc agaacttgct gcaggtgctt cagaaggctc agctggacag ctcccacaga 420  
 caggccatga tggagaagggt gcgttctat ggcagtgctc tgcctcagc tgaggagttt 480  
 cagaagctct tcaacgagct tgacagaagt gtggttaaa agcaccgccg gaggcccgag 540  
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 atgcagatgt tgcctgctgc tgagcgtgat gacttcatcc tgggggggtct caactgcgtc 720  
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 tgacggacca ctaagctggg gacaggaacc aagtcctttg cgtgtggccc aacacacatt 1740  
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 agcgccctcc cctgtccctc gcagcttccg tggctccctt gctgcgggca gcccttgggg 1920  
 accacaggcc tgacagggc ctgcacaggt taaccgtcag acttccgggg cattcagctg 1980  
 ggaatgatac taataccctc gattttagcc cagcaccaca ggggtacgttc cagttttatc 2040  
 tctcttccat ccctgttaagg cctctctcgg gaattgggtat cactctcttc aatctttatc 2100

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ccctgctgcc  aaaaccttca  gcaaacagct  ttccaaatgg  aagtgtgcac  tgtcaggggc  2280
tttacaatca  gcaacagcaa  aatctacatg  ctctcgaggg  tctctgcctc  ttaagatgca  2340
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```

<210> 265
<211> 1193
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> SITE
<222> (5)
<223> n equals a,t,g, or c

```

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<400> 265
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agagggttaa  cctgggtcaa  atgcacggat  tctcacctcg  tacagttaac  ctctcccgcg  180
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catggaggtg  ccgccacggg  ccccgcgagg  cttctctctg  agagcatgtg  gccattttcc  300
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tactctcaat  ttacttatcc  ttaaatttaa  atacatactt  atgtttgtat  taactctatca  1080
atatatgcat  acatgaatat  atccaccacc  ctgattttta  agcagttaaa  aaaaacatttc  1140
gcaaaagatt  aaagtgtgat  tttcacagtta  aaaaaaaaaa  aaaaaaaaaa  aaa          1193

```

```

<210> 266
<211> 1262
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> SITE
<222> (1203)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (1242)
<223> n equals a,t,g, or c

```

```

<400> 266
gaaaaaccca  aagatgcaga  caatctcttt  gaacatgaat  tgggggctct  caatatggct  60
gcattactac  gaaaagaaga  aagagcaagt  cttctttagta  atcttggccc  atgtttgtag  120

```



<210> 268  
 <211> 1162  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (18)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (69)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1151)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1154)  
 <223> n equals a,t,g, or c

<400> 268  
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 ggggttcgnc ggcgccttg cccgaagaag cgcgaattggc gttccgcgaa cggttggccct 120  
 caacggctcg gcagccagcc atgtcctgca ccagggacag cggccctggg ctacaaggac 180  
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 accactcagc ctcaaggag cttatgtgca gaaaatgggt aaagtgtgca atgactctga 360  
 ccgattggagt cttatatccc tgtcaacaa cagtggcaaa aatgtggaac tgaatttgt 420  
 ggattccctc cggaggcagt ttgaattcag tgtagattct ttccaatca aattagactc 480  
 tcttctgctc ttttatgaat gttcagagaa cccaatgact gagacatttc accccacaat 540  
 aatcggggag agcgtctatg gcgatttcca ggaagccttt gatcaccttt gtaacaagat 600  
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 ttgtcagaac cactttgtgg gattggaaga ccgcaagtat gagtatctca tgacccttca 840  
 tggagtggtg aatgagagca cagtgtgcct gatgggacat gaaagaagac agactttaaa 900  
 ccttatcacc atgctggcta tccgggtggt agctgaccaa aatgtcattc ctaatgtggc 960  
 taatgtcact tgcattacc agccagcccc ctatgtagca gatgccact ttagcaatta 1020  
 ctacattgca caggttcagc cagtattcac gtgccagcaa cagacctact ccacttggct 1080  
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 gagagaaaaa naangaaaa ag 1162

<210> 269  
 <211> 735  
 <212> DNA  
 <213> Homo sapiens

<400> 269  
 cgggtcgggt atttgcctcg caccatggcg cccaagggca aagtggggcag gagaggggaag 60  
 aagcagatat ttgaagagaa cagagagact ctgaagttct accctgcggat catactgggg 120

0000217-067507

```
<210> 270
<211> 783
<212> DNA
<213> Homo sapiens
```

[illegible]

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<210> 271
<211> 1638
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> SITE  
<222> (51)  
<223> n equals a,t,g, or c
```

```
<220>  
<221> SITE  
<222> (92)  
<223> n equals a,t,g, or c
```

```
<400> 271
ggcacgaggc ggcggcagcg gtggcggcgg cgcgcgcgcg cgggagccgt nccctttccc      60
gtcggggagc gcggggvcgg ggyccagggg ancccgggmc acggagagcg ggaagagqat      120
```



ggattgcccc gccctcccc ccggaaggaa gaaggaggaa gtgacccgaa aatctgggct 180  
 aagtgccggc aagagcgatg tctactactt cagtcctaagt ggtaagaagt tcagaagcaa 240  
 gccctcagttg gcaagggtacc tgggaaatcac tgttgatctc agcagttttg acttcagaac 300  
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 aattttcaaa caaccggtaa ccaagctcac aaatcatcct agtaataaag gtaaatcaga 480  
 cccacacaga atgaatgaac agccacgtca gcttttcttg gagaagaggc tacaaggact 540  
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<210> 272  
 <211> 1455  
 <212> DNA  
 <213> Homo sapiens

<400> 272  
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 tcagttggca aggtacactgt gaaatactgt tgatctcagc agttttgact tcagaactcg 120  
 aaagatgatg ccttagtaaat tacagaagaa caaacagaga ctgcgaaacg atcccttcaa 180  
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1455

<210> 273  
 <211> 1086  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1073)  
 <223> n equals a,t,g, or c

<400> 273  
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 ctgcctgtctt acatcagcct gggctgcagc gcgctgcccg cgcggggccg gcagctgaac 120  
 tatgtgctct tcagggccgg caccgtgctt cattcatctt tgtaccccca gcatctagca 180  
 gtgttggcat gtatgaggca ctcaagaaat gtgtgttgaa tgaacgatgc ctgtgacaag 240  
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 aggacatctt ggggtgaagca gggctacact ttgatgaact gaacaaagctg aggggtgttg 420  
 acccagaggt taccagcag accatagagc tgaaggaaga gtgcacaagc ttgtgggaca 480  
 aaattggcca gtttcagaaa atagttgggt gttaaatgga gcttgttgat caacttgcaa 540  
 aagaagcaga aaatgaaaa atgaaggcca tcggtgctcg gaacttgctc aaatctatatg 600  
 caaagcagag agaagctcaa cagcagcaac ttcaagccct aatagcagaa aagaaaaatgc 660  
 agctagaaag ctatcggggt gaatatgaag ctttgtgtaa agtagaagca gaacaaaaatg 720  
 aattttatga ccaattttat ttccagaaat gaactgaaaa ttctgctttt atagtaggaa 780  
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 tacaagtctg ggggagccag ttttaacatc agtgcacagc tgcctgtggt ggcctctgca 960  
 tgcagtcttc caccctctat gcttagttgg aactaagcag ttgttaactc ttcattccctt 1020  
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 ttgatg 1086

<210> 274  
 <211> 1003  
 <212> DNA  
 <213> Homo sapiens

<400> 274  
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 gtatgtacca atccactcca ctctaaacac agctctcttc ctgaggtgac taattcccaa 480  
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 actgaaaaaa aatttttacag ctactgaatt tcttataagg aaggagtggg tagtaaacgtg 600  
 cactgttttc ctgataatgt gaaatgagaa gtattttacat tggaggggca atggctggtc 660  
 ctccaagtgc tgttttgaa tgcagatttc cattaaatga tgccctctgt taatacacct 720  
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 attcaagatt attttttatta cgttaaaaaa aaaaaaaa aaa 1003

00002171-061801

<210> 275  
 <211> 1234  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1219)  
 <223> n equals a,t,g, or c

<400> 275  
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 ccagttgtat cagtggtgat tcatttcatt acttcttaca gagcaaacat gaacgttgga 180  
 gttgcccaca gtgaagtgaa tccaaatacc cgtgtcatga acagccgggg tatgtggctg 240  
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 catgtgggaac aactggacta tggagtgacag ttatcatctt cagcgaagt ttctacaact 480  
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 gcagacttac atgtaaacgc gaatcctctc tatacaagtt tattaagat tatttttatt 1080  
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 cagttcccaa ttatgaggtt acttttttgg ttttgcctgg cttaatattg tgtattgggtc 1200  
 aatgaggcca tttttacant tattaacgct acag 1234

<210> 276  
 <211> 574  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1)  
 <223> n equals a,t,g, or c

<400> 276  
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 tatggatccc catgaagccc tactacacca aagttttaca ggagatttgg ataggaatgg 120  
 ggctgatggg cttcctcgtt tataaaatcc gggctgtctga taaaagaagt aaggctttga 180  
 aagcttcacg gctcgtcctt ggtcatcact aaccagattt acttggagta catgtgaaag 240  
 aaaactgcag tctgctctga aatttcagca agccgtgtta gatggggagc gtggaacgct 300  
 actgtacact tgtataagta ccgttttact catggcatga ataaatggat ctgtgagatg 360  
 caactgtacc tgggtactgt ttcatgtgtt tcccccctac cctcccgagg tctcaggagt 420  
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 cattgtgaaa taattacctc agttgtacag gaacttggta tcaggatcca ggcactcact 540  
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00882171.061601

<210> 277  
 <211> 1731  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (492)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (515)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1676)  
 <223> n equals a,t,g, or c

<400> 277  
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 ctgtctttta tatataagta attaaagaaa atgtattgtg attgaaatta ttttgnccct 1680  
 cacaagatgg ctctatagat attcttccag ggattctaat atttatttaa g 1731

<210> 278  
 <211> 1320  
 <212> DNA  
 <213> Homo sapiens

0588174-051801

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<220>
<221> SITE
<222> (467)

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&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 279

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&lt;210&gt; 280

&lt;211&gt; 2995

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 280

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&lt;210&gt; 281

&lt;211&gt; 1990

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (45)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 281

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gttggggggc	acaaagttaa	catattctct	gttaacatgc	gttaaatatg	ctatttttaac	1980





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<210> 283
<211> 782
<212> DNA
<213> Homo sapiens
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<220>
<221> SITE
<222> (228)
<223> n equals a,t,g, or c
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400- 283									
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gcattctctg	gacttagggc	cagacaagat	ccccaggagt	cacatggnaa	gcagaagctt	240			
tgacaagtct	agtagtccca	aaatgggtta	tatcccttcc	ccctttacat	cagaattctg	300			
tgaaattggga	aaacaacaga	aggaggggat	caaaagttag	tgatctcaca	tgcttccagc	360			
gcagggcara	gtgtggagtc	aaacccgggt	gcagagtggg	tggaagagcc	tggttgaggt	420			
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aa						782			

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<212> DNA
<213> Homo sapiens
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[illegible]

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<211>	1228

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cttacaatat	cttgattaat	agcaagatga tcagtaggga gtgtcgcgaa gaagtcacag 240
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<210> 287
<211> 1847
<212> DNA
<213> Homo sapiens
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[illegible]

<210> 288  
 <211> 799  
 <212> DNA  
 <213> Homo sapiens

<400> 288  
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 ggctttggct gaagcctaata tccacagctc cttgtttttt gagagagact gagagaacca 180  
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 agagaaggat tctctggatct agctgggtcac gacgatgttt tccccaaggt cacaggagca 480  
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 acatttgaaa cagtctgcac ctttgatacg gtattgcatt tccaaagcca ccaatccatt 600  
 ttgttgattt tatgtgtctg tggcctaata atcatagtaa caacaataat acctttttct 660  
 ccaatttctc tgcaggaaac ataccttaag ttttttttgt tttgttttgt tcttttttgt 720  
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 caaaaaaagt cgaggggggg 799

<210> 289  
 <211> 2196  
 <212> DNA  
 <213> Homo sapiens

<400> 289  
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 gaaatacata tgtctaaagg gtctaatctc gctaatattg tcccgagagc aagtctctga 540  
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 gaattcagat aattcagttt tctgcaaaaac tctactcttg tcaagactag ctaattttatt 1320  
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 caaaacactt aactagaatt ctctaataag gtttatgggt tagcttaaaag agcacctttg 1500  
 tatttttatt atcagatggg gcaacatatt gtatgaagca tatgtagcac ttccacagat 1560  
 ggttatcatc taagctgcag gtgaagcaa agctgtaaag tatgtatttc acacaatgac 1620  
 tgcatacaga ctccaataat ctcaatagtt tggctcataga acctgaagac caaaagccac 1680  
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00002171-061001

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<210> 290
<211> 1185
<212> DNA
<213> Homo sapiens
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<210> 291
<211> 1634
<212> DNA
<213> Homo sapiens
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[illegible]

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tgacagctggc	tcattggcctt	cttagagcag	agagaggagt	atgtcatatt	actaagtctcc	1020
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aatgatttgt	aagagagagt	gcttggaaac	atgggtttaac	aggaagaaggc	acctaacttc	1440
acatatctgc	aaccagagca	gccaccaagc	attacttagc	agcaggaata	tgattgtatt	1500
tgagttcctg	tgtgtccaaa	actgaggcac	catgtttctt	gaaaaacatgc	caacctcaagg	1560
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kttcacggcg	ggtc					1634

<210> 292  
 <211> 1795  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (445)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (454)  
 <223> n equals a,t,g, or c

<400> 292						
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tttagagaagc	agctcatgga	tccccgggga	cctggggaca	tcaggacagt	gttcggggccg	300
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gccttggctg	tttccccgtt	catgtcacia	actgccacta	ctatgtacct	gcagtggggtg	1500
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<210> 293
<211> 858
<212> DNA
<213> Homo sapiens
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<210> 294
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<213> Homo sapiens
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<220>  
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 <222> (35)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (55)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (794)  
 <223> n equals a,t,g, or c

<400> 295  
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 ccagctgtag ccttcagaag accagcgaga gccctcagac gctgaagcgg agccgagtg 240  
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 gaagctgaag tecttccaga ccaggggacaa ccagggcatt ctctatgaag ctgcacccac 360  
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 caaggatggg cgcttgttca atgagcagaa ctctctccag cgggcccgcga agcctctgca 480  
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<210> 296  
 <211> 3865  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (632)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1651)  
 <223> n equals a,t,g, or c

0908271-051801



[illegible]

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&lt;210&gt; 297

&lt;211&gt; 1910

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (263)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 297

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acggagttggg	ctgtcccccga	gcccagccccc	gagcgagcccc	cccccccgcc	cccgmagggac	120
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096627.1.061801

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1910

<210> 298  
 <211> 3276  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (3220)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (3264)  
 <223> n equals a,t,g, or c

<220>  
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 <222> (3265)  
 <223> n equals a,t,g, or c

<220>  
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 <222> (3269)  
 <223> n equals a,t,g, or c

<220>  
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 <222> (3270)  
 <223> n equals a,t,g, or c

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&lt;211&gt; 1454

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1454)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 302

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1454

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<210> 305  
 <211> 545  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (509)  
 <223> n equals a,t,g, or c

<220>  
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 <222> (521)  
 <223> n equals a,t,g, or c

<220>  
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 <222> (541)  
 <223> n equals a,t,g, or c

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 <212> DNA  
 <213> Homo sapiens

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<220>  
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<220>  
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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<400> 306  
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<210> 307  
 <211> 997  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (103)  
 <223> n equals a,t,g, or c

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 <211> 2345  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (2178)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (2332)  
 <223> n equals a,t,g, or c

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<210> 309
<211> 2369
<212> DNA
<213> Homo sapiens

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<220>
<221> SITE
<222> (26)
<223> n equals a,t,g, or c

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<220>
<221> SITE
<222> (1598)
<223> n equals a,t,g, or c

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<210> 310
<211> 1181
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1181)
<223> n equals a,t,g, or c

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<210> 311
<211> 1537
<212> DNA
<213> Homo sapiens

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<220>
<221> SITE
<222> (163)

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<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1024)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1320)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1533)

<223> n equals a,t,g, or c

<400> 311

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<210> 312

<211> 1493

<212> DNA

<213> Homo sapiens

<400> 312

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<223> n equals a,t,g, or c
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$\langle 220 \rangle$



[illegible]

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&lt;210&gt; 317

&lt;211&gt; 3026

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (50)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1938)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (2593)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3006)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3019)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 317

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 <212> DNA  
 <213> Homo sapiens

<400> 318						
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$\langle 210 \rangle$  321

<211> 128  
 <212> PRT  
 <213> Homo sapiens

<400> 321

Met Met Phe Leu Thr Gln Gly Gly Pro Leu Pro Ser Thr Arg Ala Arg  
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Pro Thr Cys Gln Ala Gly Ala Leu Pro Lys Pro Ser Gly Leu Leu Gly  
 20 25 30

Val Thr Cys Trp Asn Gly Leu Lys Gly Pro Leu Cys Gly Asn Arg Cys  
 35 40 45

Ser Pro Asn Thr Leu Leu Leu Ala Ala Arg Gln Ala Leu Trp Lys Gly  
 50 55 60

Arg Gly Arg Thr His Gln Asp Leu Pro Gly Pro Leu Gln Gly Arg Gln  
 65 70 75 80

Leu Gly Pro Glu Pro Lys His Leu Ala Leu Leu Pro Pro Arg Gly Gln  
 85 90 95

Glu Ala Ser Trp Ala Ser Ser Leu Pro Gly Gln Gly Pro Leu Pro Leu  
 100 105 110

Pro His Ile Asn Cys Thr Val Phe Ser Leu Lys Ala Ser Phe Ile Lys  
 115 120 125

<210> 322  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

<400> 322

Met Gln Phe Leu Leu Thr Ala Phe Leu Leu Val Pro Leu Leu Ala Leu  
 1 5 10 15

Cys Asp Val Pro Ile Ser Leu Gly Phe Ser Pro Ser  
 20 25

<210> 323  
 <211> 64  
 <212> PRT  
 <213> Homo sapiens

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

000001.061801

&lt;222&gt; (51)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (63)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 323

Met	Asp	Gly	Phe	Ser	Ser	Arg	Leu	Phe	Ser	Ser	Leu	Pro	Phe	Val	Ala
1				5					10					15	

Leu	Gln	Trp	Phe	Ile	Val	Ile	Ser	His	Leu	Leu	Ser	Leu	Ser	Leu	Ser
	20							25					30		

Ala	Cys	Cys	Tyr	Gln	Thr	His	Cys	Ser	Leu	Xaa	Gln	Leu	Ser	Ser	Ala
	35						40					45			

Phe	Ser	Xaa	Met	Gly	Glu	Ser	Cys	Val	Gly	Glu	Arg	Glu	Tyr	Xaa	Phe
	50					55					60				

&lt;210&gt; 324

&lt;211&gt; 21

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 324

Met	Pro	Leu	Ile	Asn	Leu	Leu	Leu	Leu	Tyr	Tyr	Val	Pro	Asn	Gly	Gly
1				5					10					15	

Lys	Gln	Asp	Lys	Lys
			20	

&lt;210&gt; 325

&lt;211&gt; 39

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 325

Met	Gly	Arg	His	Leu	Val	Leu	Val	Met	Phe	Ile	Thr	Thr	Ser	Leu	His
1				5					10					15	

Ser	Gly	Thr	Pro	Val	Pro	Glu	Asn	Val	Ile	Cys	Gly	Val	Thr	Lys	Gly
		20					25						30		

Pro	Gln	Gly	Lys	Lys	Lys	Lys
		35				

&lt;210&gt; 326

&lt;211&gt; 31

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

05882171-061801

&lt;400&gt; 326

Met Leu Trp Trp Ser Arg Asp Tyr Thr Met Val Phe Leu Leu Phe Thr  
 1 5 10 15

Met Val Phe Thr Gly Asp Leu Val Ile Arg Gly Arg Thr Glu Leu Ser  
 20 25 30

Leu

&lt;210&gt; 327

&lt;211&gt; 88

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 327

Met Val Cys Ser Ser Leu Cys Asp Ile Gly Gly Ile Ile Thr Pro Phe  
 1 5 10 15

Ile Val Phe Arg Leu Arg Glu Val Trp Gln Ala Leu Pro Leu Ile Leu  
 20 25 30

Phe Ala Val Leu Gly Leu Leu Ala Ala Gly Val Thr Leu Leu Leu Pro  
 35 40 45

Glu Thr Lys Gly Val Ala Leu Pro Glu Thr Met Lys Asp Ala Glu Asn  
 50 55 60

Leu Gly Arg Lys Ala Lys Pro Lys Glu Asn Thr Ile Tyr Leu Lys Val  
 65 70 75 80

Gln Thr Ser Glu Pro Ser Gly Thr  
 85

&lt;210&gt; 328

&lt;211&gt; 23

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 328

Met Gln Pro Gly Ala Gly Val Leu Val Leu Gly Leu Leu Leu Pro Pro  
 1 5 10 15

Pro Gln Ser Pro Ser Leu Ser  
 20

&lt;210&gt; 329

&lt;211&gt; 27

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 329

Met Thr Phe Thr Leu Gly Asp Ser Gln Val Leu Leu Ile Asn Leu Phe  
 1 5 10 15

09662771.061001

Ala Glu Glu Val Cys Ile Asp Leu Thr Cys Asp Ser Gly Ser Gln Ala  
100 105 110



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<210> 332
<211> 252
<212> PRT
<213> Homo sapiens

<220>
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<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (35)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (163)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (167)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (252)
<223> Xaa equals stop translation

<400> 332
Met Gly Gly Asp Leu Val Leu Gly Leu Gly Ala Leu Arg Arg Arg Lys
  1             5             10             15
Arg Leu Leu Glu Gln Glu Lys Ser Leu Ala Gly Trp Ala Leu Val Trp
      20             25             30
Ala Xaa Xaa Gly Ile Gly Leu Met Val Leu His Ala Glu Met Leu Trp

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      35              40              45
Phe Gly Cys Ser Ala Val Asn Ala Thr Gly His Leu Ser Asp Thr
   50              55              60
Leu Trp Leu Ile Pro Ile Thr Phe Leu Thr Ile Gly Tyr Gly Asp Val
   65              70              75              80
Val Pro Gly Thr Met Trp Gly Lys Ile Val Cys Leu Cys Thr Gly Val
           85              90              95
Met Gly Val Cys Cys Thr Ala Leu Leu Val Ala Val Val Ala Arg Lys
      100              105              110
Leu Glu Phe Asn Lys Ala Glu Lys His Val His Asn Phe Met Met Asp
      115              120              125
Ile Gln Tyr Thr Lys Glu Met Lys Glu Ser Ala Ala Arg Val Leu Gln
      130              135              140
Glu Ala Trp Met Phe Tyr Lys His Thr Arg Arg Lys Glu Ser His Ala
   145              150              155              160
Ala Arg Xaa His Gln Arg Xaa Leu Leu Ala Ala Ile Asn Ala Phe Arg
           165              170              175
Gln Val Arg Leu Lys His Arg Lys Leu Arg Glu Gln Val Asn Ser Met
           180              185              190
Val Asp Ile Ser Lys Met His Met Ile Leu Tyr Asp Leu Gln Gln Asn
      195              200              205
Leu Ser Ser Ser His Arg Ala Leu Glu Lys Gln Ile Asp Thr Leu Ala
      210              215              220
Gly Lys Leu Asp Ala Leu Thr Glu Leu Leu Ser Thr Ala Leu Gly Pro
   225              230              235              240
Arg Gln Leu Pro Glu Pro Ser Gln Gln Ser Lys Xaa
      245              250

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<210> 333
<211> 68
<212> PRT
<213> Homo sapiens

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<220>
<221> SITE
<222> (68)
<223> Xaa equals stop translation

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<400> 333
Met Trp Arg Cys Arg Gly Lys Leu Ser Phe Pro Leu Phe Ala Val Val
   1              5              10              15
Ile Val Ser Cys Arg Lys Asp Gly Pro Asp Ala Ala Ala Ala Pro Ala
      20              25              30

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<211> 63  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (63)  
 <223> Xaa equals stop translation

<400> 336  
 Met Thr Phe Pro Phe Glu Lys Lys Ile Val Ala Phe Ser Ala Phe Tyr  
   1                  5                  10                  15  
 Leu Ile Pro Gly Glu Ser Arg Leu Ala Pro Thr Phe Asn Pro Ser Ala  
           20                  25                  30  
 Asp Met Thr Val Ile Leu Arg Gly Arg Ala Gln His Lys Thr Ala Met  
           35                  40                  45  
 Leu Glu Ser Tyr Asn Trp Lys Val Ser Cys Gln Leu Arg Glu Xaa  
       50                  55                  60

<210> 337  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 337  
 Met His Ser Lys Gly Ser Ser Leu Leu Leu Phe Leu Pro Gln Leu Ile  
   1                  5                  10                  15  
 Leu Ile Leu Pro Val Cys Ala His Leu His Glu Glu Leu Asn Cys Cys  
           20                  25                  30  
 Phe His Arg  
       35

<210> 338  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

<400> 338  
 Met Gly Ala Leu Val Leu Leu Leu Cys Leu Leu Val Gly Val Gln Gln  
   1                  5                  10                  15  
 Ser Gly Ser Val Trp Asp Ser  
           20

<210> 339  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens

<400> 339

00001-12000

Met Gln Ser Ala Glu Ile Leu Ser Trp Thr Asp Val Leu His Asp Phe  
1 5 10 15

Leu Phe Ser Leu Phe Leu Trp Pro Ala Phe Glu Asp Arg Ala Leu Leu  
20 25 30

Ile Phe Thr Leu Asn Gln Ile Val  
35 40

<210> 340  
<211> 111  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (111)  
<223> Xaa equals stop translation

<400> 340  
Met Gln Ser Leu Val Gln Trp Gly Leu Asp Ser Tyr Asp Tyr Leu Gln  
1 5 10 15

Asn Ala Pro Pro Gly Phe Phe Pro Arg Leu Gly Val Ile Gly Phe Ala  
20 25 30

Gly Leu Ile Gly Leu Leu Leu Ala Arg Gly Ser Lys Ile Lys Lys Leu  
35 40 45

Val Tyr Pro Pro Gly Phe Met Gly Leu Ala Ala Ser Leu Tyr Tyr Pro  
50 55 60

Gln Gln Ala Ile Val Phe Ala Gln Val Ser Gly Glu Arg Leu Tyr Asp  
65 70 75 80

Trp Gly Leu Arg Gly Tyr Ile Val Ile Glu Asp Leu Trp Lys Glu Asn  
85 90 95

Phe Gln Lys Pro Gly Asn Val Lys Asn Ser Pro Gly Thr Lys Xaa  
100 105 110

<210> 341  
<211> 106  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (53)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (80)  
<223> Xaa equals any of the naturally occurring L-amino acids

09082171.061801

<220>  
 <221> SITE  
 <222> (96)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (102)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 341  
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 Val Leu Ser Ser Pro Leu Glu Lys Gln Cys Gln Leu Pro Gly Ile Phe  
                   20                  25                  30  
  
 Cys Gln Leu Gln Leu Pro Cys Pro Leu Leu Leu Ser Ala Gln Leu Leu  
                   35                  40                  45  
  
 Lys Gly Ile Val Xaa Pro Arg Cys Pro Ala Ser Leu Pro Gln Pro Pro  
                   50                  55                  60  
  
 His Pro Ala Pro Ser Trp His Leu Pro Leu His Cys Thr Glu Arg Xaa  
   65                  70                  75                  80  
  
 Pro His His Leu Pro Leu Gln Gly Gly Ser Ser Asn Met Glu Glu Xaa  
                   85                  90                  95  
  
 Asn Tyr Arg Gly Tyr Xaa Asp Ala Gln Leu  
                   100                  105  
  
 <210> 342  
 <211> 50  
 <212> PRT  
 <213> Homo sapiens  
  
 <220>  
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 <223> Xaa equals stop translation  
  
 <400> 342  
 Met Thr Thr Cys Leu Phe Gly Leu Leu Ser Cys Glu Met Ser Ala Gln  
   1                  5                  10                  15  
  
 Val Ser Gln Lys Ser Cys Val Tyr Asp Glu Ser Glu Cys Phe Ser Ser  
                   20                  25                  30  
  
 Val Gly Gln Leu Leu Ala Leu Leu Ile Leu Val Tyr Val Leu Pro Ser  
                   35                  40                  45  
  
 Ile Xaa  
   50  
  
 <210> 343

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<211> 48  
 <212> PRT  
 <213> Homo sapiens

<400> 343  
 Met Leu Trp Lys Cys Ser Gln Asn Ile Ala Arg Cys Leu Leu Leu Leu  
 1 5 10 15  
 Leu Ala Leu Val Glu Ile Lys Leu Glu Asp Leu Gln Ser Gln Leu His  
 20 25 30  
 Pro Thr Trp Lys Ser Ile Pro Gly Pro Ser Pro Arg Asn Gln His Arg  
 35 40 45

<210> 344  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (41)  
 <223> Xaa equals stop translation

<400> 344  
 Met Leu Ile Pro Leu Gln Cys Leu Phe Ser Ser Asp Arg Met Leu Thr  
 1 5 10 15  
 Phe Leu Thr Pro Trp Gln Lys Gly Glu Lys Cys Val Leu Gly Trp Val  
 20 25 30  
 Thr Lys Phe Leu Ser Glu Ile Ser Xaa  
 35 40

<210> 345  
 <211> 76  
 <212> PRT  
 <213> Homo sapiens

<400> 345  
 Met Thr Phe Ser Ser Leu Lys Leu Phe Val Leu Thr Cys Ile Ile Lys  
 1 5 10 15  
 Gly Leu Glu Arg Phe Ile Ile Leu Arg Glu Val Cys Asn Gln Glu Ile  
 20 25 30  
 Gln Arg Ser Leu Ser Ser Asn Leu Val His Val Leu Leu Gln Pro Ala  
 35 40 45  
 Thr Phe Lys Asp Val Leu Val Thr Glu Ile Ile Cys Leu Cys Met Cys  
 50 55 60  
 Leu Tyr Ser Ile Lys Tyr Met Pro Pro Gln Lys Lys

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65

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75

<210> 346  
 <211> 83  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (76)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 346  
 Met Ala Gly Ala Ser Leu Gly Ala His Arg Ala Phe Gly Gly Leu Arg  
 1 5 10 15

Val Leu Thr Phe Asp Phe Leu Gln Val Gly Gly Lys Pro Asp His Asp  
 20 25 30

Asp Gln Ser Leu His Ile Leu Asp Leu His Gly Ala Asp Pro Ala Leu  
 35 40 45

Pro Gly Ser His Gln Val Tyr Ala Thr Thr Phe Cys Ser Lys Phe Arg  
 50 55 60

Ile Arg Val Thr Ser Gly Glu His Cys Pro Gln Xaa Asn Ala Asn Gly  
 65 70 75 80

Leu Ala Ala

<210> 347  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 347  
 Met Ala Lys Ile Ser Pro Phe Glu Val Val Lys Arg Thr Ser Val Pro  
 1 5 10 15

Val Leu Val Gly Leu Val Ile Val Ile Val Ala Thr Glu Leu Met Val  
 20 25 30

Pro Gly Thr Ala Ala Val Thr Gly Lys  
 35 40

<210> 348  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 348  
 Met Arg Leu Phe Phe Ile Gly Phe Leu Leu Phe Ser Phe Gly Leu  
 1 5 10 15

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Leu Arg Gln Pro Ser Leu Ser Ala Glu His  
20 25

<210> 349

<211> 26

<212> PRT

<213> Homo sapiens

<400> 349

Met Val Phe Ser Val Ser Ser Ala Leu Ala Leu Leu Leu Met Leu Leu  
1 5 10 15

Arg Ser Ser Asp Leu Ala Lys Lys Thr Glu  
20 25

<210> 350

<211> 157

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (157)

<223> Xaa equals stop translation

<400> 350

Met Ser Leu Glu Phe Tyr Gln Lys Lys Lys Ser Arg Trp Pro Phe Ser  
1 5 10 15

Asp Glu Cys Ile Pro Trp Glu Val Trp Thr Val Lys Val His Val Val  
20 25 30

Ala Leu Ala Thr Glu Gln Glu Arg Gln Ile Cys Arg Glu Lys Val Gly  
35 40 45

Glu Lys Leu Cys Glu Lys Ile Ile Asn Ile Val Glu Val Met Asn Arg  
50 55 60

His Glu Tyr Leu Pro Lys Met Pro Thr Gln Ser Glu Val Asp Asn Val  
65 70 75 80

Phe Asp Thr Gly Leu Arg Asp Val Gln Pro Tyr Leu Tyr Lys Ile Ser  
85 90 95

Phe Gln Ile Thr Asp Ala Leu Gly Thr Ser Val Thr Thr Thr Met Arg  
100 105 110

Arg Leu Ile Lys Asp Thr Leu Pro Ser Glu Arg Arg Trp Ile Ser Gly  
115 120 125

Ser Ser Leu Met Ala Pro Arg Pro Trp Leu Leu Gly Ile Ala Leu Leu  
130 135 140

Gly Leu Trp Ala Leu Glu Pro Ala Leu Gly His Trp Xaa  
145 150 155

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<210> 351  
 <211> 520  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (385)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (520)  
 <223> Xaa equals stop translation

<400> 351  
 Met Phe Leu Leu Pro Leu Pro Ala Ala Gly Arg Val Val Val Arg Arg  
           1                  5                  10                  15  
 Leu Ala Val Arg Arg Phe Gly Ser Arg Ser Leu Ser Thr Ala Asp Met  
                   20                  25                  30  
 Thr Lys Gly Leu Val Leu Gly Ile Tyr Ser Lys Glu Lys Glu Asp Asp  
                   35                  40                  45  
 Val Pro Gln Phe Thr Ser Ala Gly Glu Asn Phe Asp Lys Leu Leu Ala  
                   50                  55                  60  
 Gly Lys Leu Arg Glu Thr Leu Asn Ile Ser Gly Pro Pro Leu Lys Ala  
                   65                  70                  75                  80  
 Gly Lys Thr Arg Thr Phe Tyr Gly Leu His Gln Asp Phe Pro Ser Val  
                   85                  90                  95  
 Val Leu Val Gly Leu Gly Lys Lys Ala Ala Gly Ile Asp Glu Gln Glu  
                   100                  105                  110  
 Asn Trp His Glu Gly Lys Glu Asn Ile Arg Ala Ala Val Ala Ala Gly  
                   115                  120                  125  
 Cys Arg Gln Ile Gln Asp Leu Glu Leu Ser Ser Val Glu Val Asp Pro  
                   130                  135                  140  
 Cys Gly Asp Ala Gln Ala Ala Ala Glu Gly Ala Val Leu Gly Leu Tyr  
                   145                  150                  155                  160  
 Glu Tyr Asp Asp Leu Lys Gln Lys Lys Lys Met Ala Val Ser Ala Lys  
                   165                  170                  175  
 Leu Tyr Gly Ser Gly Asp Gln Glu Ala Trp Gln Lys Gly Val Leu Phe  
                   180                  185                  190  
 Ala Ser Gly Gln Asn Leu Ala Arg Gln Leu Met Glu Thr Pro Ala Asn  
                   195                  200                  205  
 Glu Met Thr Pro Thr Arg Phe Ala Glu Ile Ile Glu Lys Asn Leu Lys  
                   210                  215                  220

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<210> 352  
 <211> 39  
 <212> PRT  
 <213> Homo sapiens

<400> 352  
 Thr Ile Leu Phe Leu Phe Leu Gln Leu Ser Ala Leu Arg Leu Ile Val  
 1 5 10 15  
 Gly Lys Asp Ser Ile Asp Ile Asp Ile Ser Ser Arg Arg Arg Glu Asp  
 20 25 30  
 Gln Ser Leu Arg Leu Asn Ala  
 35

<210> 353  
 <211> 234  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (234)  
 <223> Xaa equals stop translation

<400> 353  
 Met Thr Ser Glu Leu Asp Ile Phe Val Gly Asn Thr Thr Leu Ile Asp  
 1 5 10 15  
 Glu Asp Val Tyr Arg Leu Trp Leu Asp Gly Tyr Ser Val Thr Asp Ala  
 20 25 30  
 Val Ala Leu Arg Val Arg Ser Gly Ile Leu Glu Gln Thr Gly Ala Thr  
 35 40 45  
 Ala Ala Val Leu Gln Ser Asp Thr Met Asp His Tyr Arg Thr Phe His  
 50 55 60  
 Met Leu Glu Arg Leu Leu His Ala Pro Pro Lys Leu Leu His Gln Leu  
 65 70 75 80  
 Ile Phe Gln Ile Pro Pro Ser Arg Gln Ala Leu Leu Ile Glu Arg Tyr  
 85 90 95  
 Tyr Ala Phe Asp Glu Ala Phe Val Arg Glu Val Leu Gly Lys Lys Leu  
 100 105 110  
 Ser Lys Gly Thr Lys Lys Asp Leu Asp Asp Ile Ser Thr Lys Thr Gly  
 115 120 125  
 Ile Thr Leu Lys Ser Cys Arg Arg Gln Phe Asp Asn Phe Lys Arg Val  
 130 135 140  
 Phe Lys Val Val Glu Glu Met Arg Gly Ser Leu Val Asp Asn Ile Gln  
 145 150 155 160

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Gln His Phe Leu Leu Ser Asp Arg Leu Ala Arg Asp Tyr Ala Ala Ile  
165 170 175

Val Phe Phe Ala Asn Asn Arg Phe Glu Thr Gly Lys Lys Lys Leu Gln  
180 185 190

Tyr Leu Ser Phe Gly Asp Phe Ala Phe Cys Ala Glu Leu Met Ile Gln  
195 200 205

Asn Trp Thr Leu Gly Pro Val Asp Ser Gln Met Asp Asp Met Asp Met  
210 215 220

Asp Leu Asp Arg Asn Phe Ser Arg Thr Xaa  
225 230

<210> 354

<211> 169

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (169)

<223> Xaa equals stop translation

<400> 354

Met Ala Ala Ala Val Ala Gly Met Leu Arg Gly Gly Leu Leu Pro Gln  
1 5 10 15

Ala Gly Arg Leu Pro Thr Leu Gln Thr Val Arg Tyr Gly Ser Lys Ala  
20 25 30

Val Thr Arg His Arg Arg Val Met His Phe Gln Arg Gln Lys Leu Met  
35 40 45

Ala Val Thr Glu Tyr Ile Pro Pro Lys Pro Ala Ile His Pro Ser Cys  
50 55 60

Leu Pro Ser Pro Pro Ser Pro Pro Gln Glu Glu Ile Gly Leu Ile Arg  
65 70 75 80

Leu Leu Arg Arg Glu Ile Ala Ala Val Phe Gln Asp Asn Arg Met Ile  
85 90 95

Ala Val Cys Gln Asn Val Ala Leu Ser Ala Glu Asp Lys Leu Leu Ile  
100 105 110

Ala Thr Pro Ala Ala Glu Thr Gln Asp Pro Asp Glu Gly Leu Pro Gln  
115 120 125

Pro Gly Pro Glu Ser Pro Ser Trp Arg Ile Pro Ser Thr Lys Ile Cys  
130 135 140

Cys Pro Phe Leu Trp Gly Thr Thr Cys Cys Trp Ser Val Lys Ser Pro  
145 150 155 160

Arg Ser Arg Arg Trp Tyr Gly Ser Xaa

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165

<210> 355  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<400> 355  
 Met Lys Arg Ser Phe Leu Leu Pro Leu Leu Leu Val Gly Phe Leu Asp  
 1 5 10 15  
 Thr Ala His Leu Ile Leu Leu Glu Thr Leu Ser Val Cys Leu Trp Leu  
 20 25 30  
 Pro Ser Leu Ile Asp Ser Arg Cys Val Met Ser  
 35 40

<210> 356  
 <211> 78  
 <212> PRT  
 <213> Homo sapiens

<400> 356  
 Met Lys Glu Gly Pro Pro Cys Lys Arg His His Tyr Tyr Gln Asn Cys  
 1 5 10 15  
 Gly Ala Lys Leu Leu Val Ser Leu Phe Gly Glu Thr Asn Gln Ile His  
 20 25 30  
 Leu Leu Glu Thr Gln Val Gly Thr Glu Lys Gly Gly Glu Arg Ile Trp  
 35 40 45  
 Glu Glu Lys Trp Arg Ile Ser Ser Thr Val Leu Phe Ile Ser Val Asn  
 50 55 60  
 Ser Tyr Val Glu Gly Ser Val Leu Glu Ile Lys Leu Phe Tyr  
 65 70 75

<210> 357  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

<400> 357  
 Met Ser Glu Ile Leu Ser Leu Leu Phe Cys Leu Leu Gly Pro Ala Leu  
 1 5 10 15  
 Asp Glu Arg Arg Glu Glu Lys Asp  
 20

<210> 358  
 <211> 274  
 <212> PRT  
 <213> Homo sapiens

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<220>  
 <221> SITE  
 <222> (108)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (178)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (226)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (228)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (229)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (274)  
 <223> Xaa equals stop translation

<400> 358  
 Met Ser Ser Ala Gly Thr Ala Thr Pro Leu Glu Met Asp His Lys Leu  
 1 5 10 15

Thr Ser Gln Pro Gly Arg Pro Ser Phe Tyr Cys Asn Ser Arg His Ser  
 20 25 30

Ile Val Gly Ser Ser His Gln Leu Gly Phe Trp Phe Ser His Leu Glu  
 35 40 45

Ser Ser Gly Leu Lys Val Phe Gln Val Ser Leu Pro Cys Glu Cys Val  
 50 55 60

Asn Leu Pro Thr Arg Ile Ala Ser Val Val Leu Ser Leu Met Ser Leu  
 65 70 75 80

Leu Val Val Gly Gln Ala Pro Ala Trp Glu Gly Ser Leu Leu Arg Gly  
 85 90 95

Arg Pro Ala Gly Gly Ala His Leu Cys Ala Met Xaa Val Ile Glu Gly  
 100 105 110

Leu Val Val Asp Val Gly Glu Arg Ile Leu His Gly Gln Arg Glu Val  
 115 120 125

Gly Gln Val Ser Gln Val Leu Pro Ala Leu Ser Leu Gly Leu Val Phe  
 130 135 140

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Met Trp Leu Leu Ser Ala Ile Leu Trp Ala Ser Leu Trp Met Ala Arg  
1 5 10 15



Met Ala Ser Arg Ser Leu Ser Ala Ser Gly Arg Val Asp Leu Asn Trp  
                   20                                  25                                  30

Ser Trp Ala Glu Ile Arg Pro Ser Ile Ser Ser Met Val Trp Thr Met  
                   35                                  40                                  45

Asn Met Ser Trp Arg Ser Ser Met Ala Leu Ser Ile Gln Leu Leu Lys  
                   50                                  55                                  60

Gly Ala Ala Arg Leu Ala Tyr Ser Arg Cys Ser Trp Ser Met Ala Ser  
                   65                                  70                                  75                                  80

Ser Cys Phe Ser Val Phe Ser Arg Ala Ser Leu Arg Leu Cys Val Arg  
                   85                                  90                                  95

Glu Pro Arg Ala Ser His Trp Ser Gln Ile Phe Trp His Arg Val Leu  
                   100                                  105                                  110

Thr Leu Trp Glu Ser  
                   115

<210> 361  
 <211> 52  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (19)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (32)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 361  
 Met Ser Ile Ser Gly Thr Asp Gly Leu Ile Leu Leu Leu Val Gly Leu  
                   1                                  5                                  10                                  15

Glu Ala Xaa Val Arg Ser Ser Lys Lys Trp Ile Pro Lys Ala Leu Xaa  
                   20                                  25                                  30

Val Thr Gln Ala Lys Trp Asn Ser Trp Pro Ser Arg Arg Asn Ala Gly  
                   35                                  40                                  45

Phe Ala Leu His  
                   50

<210> 362  
 <211> 132  
 <212> PRT  
 <213> Homo sapiens

<220>

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Ala Ser Ala Cys Val Ile Met Phe Asp Val Thr Asn Ala Thr Thr Phe  
85 90 95

Ser Asn Ser Gln Arg Trp Lys Gln Asp Leu Asp Ser Lys Leu Thr Leu  
100 105 110

Pro Asn Gly Glu Pro Val Pro Cys Leu Leu Leu Ala Asn Lys Cys Asp  
115 120 125

Leu Ser Pro Trp Ala Val Ser Arg Asp Gln Ile Asp Arg Phe Ser Lys  
130 135 140

Glu Asn Gly Phe Thr Gly Trp Thr Glu Thr Ser Val Lys Glu Asn Lys  
145 150 155 160

Asn Ile Asn Glu Ala Met Arg Val Leu Ile Glu Lys Met Met Arg Asn  
165 170 175

Ser Thr Glu Asp Ile Met Ser Leu Ser Thr Gln Gly Asp Tyr Ile Asn  
180 185 190

Leu Gln Thr Lys Ser Ser Ser Trp Ser Cys Cys Xaa  
195 200

<210> 364

<211> 47

<212> PRT

<213> Homo sapiens

<400> 364

Met Ile Ser Leu Ile Phe Gln Leu Glu Glu Glu Lys Leu Val Glu Lys  
1 5 10 15

Phe Phe Phe Phe Leu Phe Phe Phe Leu Lys Lys Gly Ser Gln Gly Ser  
20 25 30

Asn Leu Lys Ile Val Pro Arg His Met Arg Val Val Leu Arg Gly  
35 40 45

<210> 365

<211> 73

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (73)

<223> Xaa equals stop translation

<400> 365

Met Thr Tyr Val Thr Cys Leu His Val Cys Leu Leu Val Glu Phe Leu  
1 5 10 15

Asn Ser Gln Leu Thr Asn His Arg Lys Tyr Tyr Phe Leu Ser Tyr Gly  
20 25 30

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<210> 368  
 <211> 179  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (175)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (179)  
 <223> Xaa equals stop translation

<400> 368  
 Met Ser Ala Glu Val Lys Val Thr Gly Gln Asn Gln Glu Gln Phe Leu  
 1 5 10 15  
 Leu Leu Ala Lys Ser Ala Lys Gly Ala Ala Leu Ala Thr Leu Ile His  
 20 25 30  
 Gln Val Leu Glu Ala Pro Gly Val Tyr Val Phe Gly Glu Leu Leu Asp  
 35 40 45  
 Met Pro Asn Val Arg Glu Leu Ala Glu Ser Asp Phe Ala Ser Thr Phe  
 50 55 60  
 Arg Leu Leu Thr Val Phe Ala Tyr Gly Thr Tyr Ala Asp Tyr Leu Ala  
 65 70 75 80  
 Glu Ala Arg Asn Leu Pro Pro Leu Thr Glu Ala Gln Lys Asn Lys Leu  
 85 90 95  
 Arg His Leu Ser Val Val Thr Leu Ala Ala Lys Val Lys Cys Ile Pro  
 100 105 110  
 Tyr Ala Val Leu Leu Glu Ala Leu Ala Leu Arg Asn Val Arg Gln Leu  
 115 120 125  
 Glu Asp Leu Val Ile Glu Ala Val Tyr Ala Asp Val Leu Arg Gly Ser  
 130 135 140  
 Leu Asp Gln Arg Asn Gln Arg Leu Glu Val Asp Tyr Ser Ile Gly Arg  
 145 150 155 160  
 Asp Ile Gln Arg Gln Asp Leu Ser Ala Ile Ala Arg Thr Leu Xaa Lys  
 165 170 175  
 Asn His Xaa

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<210> 369  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<400> 369  
 Met Lys Ser Ser Ser Leu Phe Phe Phe Phe Leu Ala His Phe Ile His  
           1                  5                  10                  15  
 Ser His Asp Leu Pro Gly Leu Cys Arg  
                   20                  25

<210> 370  
 <211> 224  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (8)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
 <220>  
 <221> SITE  
 <222> (212)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (224)  
 <223> Xaa equals stop translation

<400> 370  
 Met Lys Phe Ala Ala Ser Gly Xaa Phe Leu His His Met Ala Gly Leu  
           1                  5                  10                  15

Ser Ser Ser Lys Leu Ser Met Ser Lys Ala Leu Pro Leu Thr Lys Val  
                   20                  25                  30

Val Gln Asn Asp Ala Tyr Thr Ala Pro Ala Leu Pro Ser Ser Ile Arg  
           35                  40                  45

Thr Lys Ala Leu Thr Asn Met Ser Arg Thr Leu Val Asn Lys Glu Glu  
           50                  55                  60

Pro Pro Lys Glu Leu Pro Ala Ala Glu Pro Val Leu Ser Pro Leu Glu  
           65                  70                  75                  80

Gly Thr Lys Met Thr Val Asn Asn Leu His Pro Arg Val Thr Glu Glu  
                   85                  90                  95

Asp Ile Val Glu Leu Phe Cys Val Cys Gly Ala Leu Lys Arg Ala Arg  
           100                  105                  110

Leu Val His Pro Gly Val Ala Glu Val Val Phe Val Lys Lys Asp Asp  
           115                  120                  125

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Ala Ile Thr Ala Tyr Lys Lys Tyr Asn Asn Arg Cys Leu Asp Gly Gln  
 130 135 140

Pro Met Lys Cys Asn Leu His Met Asn Gly Asn Val Ile Thr Ser Asp  
 145 150 155 160

Gln Pro Ile Leu Leu Arg Leu Ser Asp Ser Pro Ser Met Lys Lys Glu  
 165 170 175

Ser Glu Leu Pro Arg Arg Val Asn Ser Ala Ser Ser Ser Asn Pro Pro  
 180 185 190

Ala Glu Val Asp Pro Asp Thr Ile Leu Lys Ala Leu Phe Lys Ser Ser  
 195 200 205

Gly Ala Ser Xaa Thr Thr Gln Pro Thr Glu Phe Lys Ile Lys Leu Xaa  
 210 215 220

<210> 371  
 <211> 349  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (349)  
 <223> Xaa equals stop translation

<400> 371  
 Met Ser Lys Asn Cys Ile Lys Leu Leu Cys Glu Asp Pro Val Phe Ala  
 1 5 10 15

Glu Tyr Ile Lys Cys Ile Leu Met Asp Glu Arg Thr Phe Leu Asn Asn  
 20 25 30

Asn Ile Val Tyr Thr Phe Met Thr His Phe Leu Leu Lys Val Gln Ser  
 35 40 45

Gln Val Phe Ser Glu Ala Asn Cys Ala Asn Leu Ile Ser Thr Leu Ile  
 50 55 60

Thr Asn Leu Ile Ser Gln Tyr Gln Asn Leu Gln Ser Asp Phe Ser Asn  
 65 70 75 80

Arg Val Glu Ile Ser Lys Ala Ser Ala Ser Leu Asn Gly Asp Leu Arg  
 85 90 95

Ala Leu Ala Leu Leu Leu Ser Val His Thr Pro Lys Gln Leu Asn Pro  
 100 105 110

Ala Leu Ile Pro Thr Leu Gln Glu Leu Leu Ser Lys Cys Arg Thr Cys  
 115 120 125

Leu Gln Gln Arg Asn Ser Leu Gln Glu Gln Glu Ala Lys Glu Arg Lys

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130                      135                      140  
 Thr Lys Asp Asp Glu Gly Ala Thr Pro Ile Lys Arg Arg Arg Val Ser  
 145                      150                      155                      160  
 Ser Asp Glu Glu His Thr Val Asp Ser Cys Ile Ser Asp Met Lys Thr  
                     165                      170                      175  
 Glu Thr Arg Glu Val Leu Thr Pro Thr Ser Thr Ser Asp Asn Glu Thr  
                     180                      185                      190  
 Arg Asp Ser Ser Ile Ile Asp Pro Gly Thr Glu Gln Asp Leu Pro Ser  
                     195                      200                      205  
 Pro Glu Asn Ser Ser Val Lys Glu Tyr Arg Met Glu Val Pro Ser Ser  
                     210                      215                      220  
 Phe Ser Glu Asp Met Ser Asn Ile Arg Ser Gln His Ala Glu Glu Gln  
 225                      230                      235                      240  
 Ser Asn Asn Gly Arg Tyr Asp Asp Cys Lys Glu Phe Lys Asp Leu His  
                     245                      250                      255  
 Cys Ser Lys Asp Ser Thr Leu Ala Glu Glu Ser Glu Phe Pro Ser  
                     260                      265                      270  
 Thr Ser Ile Ser Ala Val Leu Ser Asp Leu Ala Asp Leu Arg Ser Cys  
                     275                      280                      285  
 Asp Gly Gln Ala Leu Pro Ser Gln Asp Pro Glu Val Ala Leu Ser Leu  
                     290                      295                      300  
 Ser Cys Gly His Ser Arg Gly Leu Phe Ser His Met Gln Gln His Asp  
 305                      310                      315                      320  
 Ile Leu Asp Thr Leu Cys Arg Thr Ile Glu Ser Thr Ile His Val Val  
                     325                      330                      335  
 Thr Arg Ile Ser Gly Lys Gly Asn Gln Ala Ala Ser Xaa  
                     340                      345

<210> 372  
 <211> 467  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (158)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (279)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>



$\langle 222 \rangle$  (341)

<400> 372

Phe Glu Pro Pro Pro Gly Xaa Lys Ala Asn Met Leu Arg Thr Phe Ser  
275 280 285



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<210> 374
<211> 373
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (175)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (373)
<223> Xaa equals stop translation

<400> 374
Met Tyr Asp Gly Thr Lys Glu Val Pro Met Asn Pro Val Lys Ile Tyr
  1             5             10             15

Gln Val Cys Asp Ile Pro Gln Pro Gln Gly Ser Ile Ile Asn Pro Gly
      20             25             30

Ser Thr Gly Ser Ala Pro Trp Asp Glu Lys Asp Asn Asp Val Asp Glu
      35             40             45

Glu Asp Glu Glu Asp Glu Leu Asp Gln Ser Gln His His Val Pro Ile
      50             55             60

Gln Asp Thr Phe Pro Phe Leu Asn Ile Asn Gly Ser Pro Met Ala Pro
      65             70             75             80

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Ala	Ser	Val	Gly	Asn	Cys	Ser	Val	Gly	Asn	Cys	Ser	Pro	Glu	Ala	95
85															
Trp	Pro	Lys	Thr	Glu	Pro	Leu	Glu	Met	Glu	Val	Pro	Gln	Ala	Pro	Ile
100															
Gln	Pro	Phe	Tyr	Ser	Ser	Pro	Glu	Leu	Trp	Ile	Ser	Ser	Leu	Pro	Met
115															
Thr	Asp	Leu	Asp	Ile	Lys	Phe	Gln	Tyr	Arg	Gly	Lys	Glu	Tyr	Gly	Gln
130															
Thr	Met	Thr	Val	Ser	Asn	Pro	Gln	Gly	Cys	Arg	Leu	Phe	Tyr	Gly	Asp
145															
Leu	Gly	Pro	Met	Pro	Asp	Gln	Glu	Glu	Leu	Phe	Gly	Pro	Val	Xaa	Leu
165															
Glu	Gln	Val	Lys	Phe	Pro	Gly	Pro	Glu	His	Ile	Thr	Asn	Glu	Lys	Gln
180															
Lys	Leu	Phe	Thr	Ser	Lys	Leu	Leu	Asp	Val	Met	Asp	Arg	Gly	Leu	Ile
195															
Leu	Glu	Val	Ser	Gly	His	Ala	Ile	Tyr	Ala	Ile	Arg	Leu	Cys	Gln	Cys
210															
Lys	Val	Tyr	Trp	Ser	Gly	Pro	Cys	Ala	Pro	Ser	Leu	Val	Ala	Pro	Asn
225															
Leu	Ile	Glu	Arg	Gln	Lys	Lys	Val	Lys	Leu	Phe	Cys	Leu	Glu	Thr	Phe
245															
Leu	Ser	Asp	Leu	Ile	Ala	His	Gln	Lys	Gly	Gln	Ile	Glu	Lys	Gln	Pro
260															
Pro	Phe	Glu	Ile	Tyr	Leu	Cys	Phe	Gly	Glu	Glu	Trp	Pro	Asp	Gly	Lys
275															
Pro	Leu	Glu	Arg	Lys	Leu	Ile	Leu	Val	Gln	Val	Ile	Pro	Val	Val	Ala
290															
Arg	Met	Ile	Tyr	Glu	Met	Phe	Ser	Gly	Asp	Phe	Thr	Arg	Ser	Phe	Asp
305															
Ser	Gly	Ser	Val	Arg	Leu	Gln	Ile	Ser	Thr	Pro	Asp	Ile	Lys	Asp	Asn
325															
Ile	Val	Ala	Gln	Leu	Lys	Gln	Leu	Tyr	Arg	Ile	Leu	Gln	Thr	Gln	Glu
340															
Ser	Trp	Gln	Pro	Met	Gln	Pro	Thr	Pro	Ser	Met	Gln	Leu	Pro	Pro	Ala
355															
Leu	Pro	Pro	Gln	Xaa											
370															

Met

<210> 377  
 <211> 227  
 <212> PRT  
 <213> Homo sapiens

<400> 377  
 Met Gly Ala Ser Ala Arg Leu Leu Arg Ala Val Ile Met Gly Ala Pro  
 1 5 10 15  
 Gly Ser Gly Lys Gly Thr Val Ser Ser Arg Ile Thr Thr His Phe Glu  
 20 25 30  
 Leu Lys His Leu Ser Ser Gly Asp Leu Leu Arg Asp Asn Met Leu Arg  
 35 40 45  
 Gly Thr Glu Ile Gly Val Leu Ala Lys Ala Phe Ile Asp Gln Gly Lys  
 50 55 60  
 Leu Ile Pro Asp Asp Val Met Thr Arg Leu Ala Leu His Glu Leu Lys  
 65 70 75 80  
 Asn Leu Thr Gln Tyr Ser Trp Leu Leu Asp Gly Phe Pro Arg Thr Leu  
 85 90 95  
 Pro Gln Ala Glu Ala Leu Asp Arg Ala Tyr Gln Ile Asp Thr Val Ile  
 100 105 110  
 Asn Leu Asn Val Pro Phe Glu Val Ile Lys Gln Arg Leu Thr Ala Arg  
 115 120 125  
 Trp Ile His Pro Ala Ser Gly Arg Val Tyr Asn Ile Glu Phe Asn Pro  
 130 135 140  
 Pro Lys Thr Val Gly Ile Asp Asp Leu Thr Gly Glu Pro Leu Ile Gln  
 145 150 155 160  
 Arg Glu Asp Asp Lys Pro Glu Thr Val Ile Lys Arg Leu Lys Ala Tyr  
 165 170 175  
 Glu Asp Gln Thr Lys Pro Val Leu Glu Tyr Tyr Gln Lys Lys Gly Val  
 180 185 190  
 Leu Glu Thr Phe Ser Gly Thr Glu Thr Asn Lys Ile Trp Pro Tyr Val  
 195 200 205  
 Tyr Ala Phe Leu Gln Thr Lys Val Pro Gln Arg Ser Gln Lys Ala Ser  
 210 215 220  
 Val Thr Pro  
 225

<210> 378  
 <211> 79  
 <212> PRT  
 <213> Homo sapiens

<220>

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<221> SITE
<222> (79)
<223> Xaa equals stop translation

<400> 378
Met Phe Leu Asn Cys Glu Ile Leu Glu Tyr Cys Tyr Tyr Leu Thr Gln
 1             5             10             15
Leu Lys Ile Ser Met Gly Lys Tyr Leu Ser Ile Pro Thr Val Leu Leu
                20             25             30
Lys Ile Ile Arg Cys Ser Ile Thr Ala Val Ser Asp Ser Ser Thr Ser
          35             40             45
Trp Ala Ile Lys Ala Gln Leu Lys Ile Glu Asn Lys Asp Leu Asp Asn
 50             55             60
Lys Thr Ala Lys Gly Gly Gly Gln Glu Ala Leu Thr Cys Thr Xaa
 65             70             75

<210> 379
<211> 51
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (50)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (51)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 379
Met Arg Ala Val Phe Pro Cys Cys Pro Phe Leu Thr Leu Met Leu Pro
 1             5             10             15
Leu Leu Glu Cys Leu Val Gly Met Ile Met Cys Tyr Leu Gly Ile Ser
                20             25             30
Phe Thr Asp Thr Arg Lys Thr Ala Gly Leu Lys Lys Lys Lys Lys
 35             40             45
Lys Xaa Xaa
 50

<210> 380
<211> 61
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (61)

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<400> 380
Met Phe Leu Met Arg Met His Leu Cys Phe Cys Lys Tyr Cys Ser
  1                      5                      10          15
Phe Ile Val Thr Pro Thr Ser Thr Ser Asn Thr Ala Ser Tyr Leu Trp
          20                      25          30
Pro Trp Ile Ser Ala Ser Met Ala Gly Arg Gly Ser Ser Trp Ala Cys
          35                      40          45
Thr Leu Asn Ala Val Thr Arg Glu Gly Leu Pro Glu Xaa
  50                      55          60

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<400> 381
Met Ser Leu Leu Asn Thr His Thr Leu Cys Phe Val Leu Phe Cys Phe
  1                      5                      10                      15
Thr Leu Ser Ile Asn Gln Glu Lys Leu Ala Asn His Leu Ala Phe Arg
                      20                      25                      30
Ile Leu Phe Phe Ile Val Phe Xaa
  35                      40
```

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<400> 382
Met Cys Ser Gly Gln Ser Gln Val Trp Lys Met Ala Leu Gln Ala Leu
  1              5              10              15
Asp Ser Glu Thr Val Val Ile Leu Pro Asp Met His Leu Ile Leu Ser
          20          25          30
Leu Arg Leu Ile His Asn Ala Arg Pro Cys Leu Xaa
  35          40
```



<210> 383  
 <211> 203  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (203)  
 <223> Xaa equals stop translation

<400> 383  
 Met Leu Ile Ser Glu Glu Glu Ile Pro Phe Lys Asp Asp Pro Arg Asp  
 1 5 10 15  
 Glu Thr Tyr Lys Pro His Leu Glu Arg Glu Thr Pro Lys Pro Arg Arg  
 20 25 30  
 Lys Ser Gly Lys Val Lys Glu Glu Lys Glu Lys Lys Glu Ile Lys Val  
 35 40 45  
 Glu Val Glu Val Glu Val Lys Glu Glu Glu Asn Glu Ile Arg Glu Asp  
 50 55 60  
 Glu Glu Pro Pro Arg Lys Arg Gly Arg Arg Lys Asp Asp Lys Ser  
 65 70 75 80  
 Pro Arg Leu Pro Lys Arg Arg Lys Lys Pro Pro Ile Gln Tyr Val Arg  
 85 90 95  
 Cys Glu Met Glu Gly Cys Gly Thr Val Leu Ala His Pro Arg Tyr Leu  
 100 105 110  
 Gln His His Ile Lys Tyr Gln His Leu Leu Lys Lys Lys Tyr Val Cys  
 115 120 125  
 Pro His Pro Ser Cys Gly Arg Leu Phe Arg Leu Gln Lys Gln Leu Leu  
 130 135 140  
 Arg His Ala Lys His His Thr Asp Gln Arg Asp Tyr Ile Cys Glu Tyr  
 145 150 155 160  
 Cys Ala Arg Ala Phe Lys Ser Ser His Asn Leu Ala Val His Arg Met  
 165 170 175  
 Ile His Thr Gly Glu Lys His Tyr Asn Val Arg Ser Val Asp Leu Leu  
 180 185 190  
 Val Asp Lys Arg His Leu Leu Ile Gly Thr Xaa  
 195 200

<210> 384  
 <211> 29  
 <212> PRT  
 <213> Homo sapiens

<400> 384  
 Met Leu Pro Arg Arg Thr Phe Tyr Phe Tyr Phe Ile Phe Ile Phe Phe

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1 5 10 15  
 Leu Ala Ser Phe Trp Gly Phe Thr Leu Arg Ala Ser Phe  
 20 25

<210> 385  
 <211> 136  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (136)  
 <223> Xaa equals stop translation

<400> 385  
 Met Phe Asp Ser Leu Ser Tyr Phe Lys Gly Ser Ser Leu Leu Leu Met  
 1 5 10 15  
 Leu Lys Thr Tyr Leu Ser Glu Asp Val Phe Gln His Ala Val Val Leu  
 20 25 30  
 Tyr Leu His Asn His Ser Tyr Ala Ser Ile Gln Ser Asp Asp Leu Trp  
 35 40 45  
 Asp Ser Phe Asn Glu Val Thr Asn Gln Thr Leu Asp Val Lys Arg Met  
 50 55 60  
 Met Lys Thr Trp Thr Leu Gln Lys Gly Phe Pro Leu Val Thr Val Gln  
 65 70 75 80  
 Lys Lys Gly Lys Glu Leu Phe Ile Gln Gln Glu Arg Phe Phe Leu Asn  
 85 90 95  
 Met Lys Pro Glu Ile Gln Pro Ser Asp Thr Arg Tyr Met Pro Ser Phe  
 100 105 110  
 Phe Ser Cys His Leu Phe Cys Thr Leu Arg Trp Lys Tyr Phe Glu Val  
 115 120 125  
 Phe Tyr Asn His Lys Phe Leu Xaa  
 130 135

<210> 386  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 386  
 Met Ala Trp Arg Arg Glu Pro Ala Ser Gly Leu Ala Ala Cys Trp  
 1 5 10 15  
 Leu Trp Arg Cys Ser Pro Trp Pro Cys Ala Cys Pro Gly Pro Gly Ala  
 20 25 30  
 Gly Leu Ser Ser Gly Ser Arg Pro Trp

40

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<210> 387
<211> 468
<212> PRT
<213> Homo sapiens
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<220>  
<221> SITE  
<222> (468)  
<223> Xaa equals stop translation
```

<400> 387  
Met Glu Phe Leu Lys Val Ala Arg Arg Asn Lys Arg Glu Gln Leu Glu  
1 5 10 15

Gln Ile Gln Lys Glu Leu Ser Val Leu Glu Glu Asp Ile Lys Arg Val  
20 25 30

Glu Glu Met Ser Gly Leu Tyr Ser Pro Val Ser Glu Asp Ser Thr Val  
35 40 45

Pro Gln Phe Glu Ala Pro Ser Pro Ser His Ser Ser Ile Ile Asp Ser  
50 55 60

Thr Glu Tyr Ser Gln Pro Pro Gly Phe Ser Gly Ser Ser Gln Thr Lys  
65 70 75 80

Lys Gln Pro Trp Tyr Asn Ser Thr Leu Ala Ser Arg Arg Lys Arg Leu  
85 90 95

Thr Ala His Phe Glu Asp Leu Glu Gln Cys Tyr Phe Ser Thr Arg Met  
100 105 110

Ser Arg Ile Ser Asp Asp Ser Arg Thr Ala Ser Gln Leu Asp Glu Phe  
115 120 125

Gln Glu Cys Leu Ser Lys Phe Thr Arg Tyr Asn Ser Val Arg Pro Leu  
130 135 140

Ala Thr Leu Ser Tyr Ala Ser Asp Leu Tyr Asn Gly Ser Ser Ile Val  
145 150 155 160

Ser Ser Ile Glu Phe Asp Arg Asp Cys Asp Tyr Phe Ala Ile Ala Gly  
165 170 175

Val Thr Lys Lys Ile Lys Val Tyr Glu Tyr Asp Thr Val Ile Gln Asp  
180 185 190

Ala Val Asp Ile His Tyr Pro Glu Asn Glu Met Thr Cys Asn Ser Lys  
195 200 205

Ile Ser Cys Ile Ser Trp Ser Ser Tyr His Lys Asn Leu Leu Ala Ser  
210 215 220

Ser Asp Tyr Glu Gly Thr Val Ile Leu Trp Asp Gly Phe Thr Gly Gln  
225 230 235 240



<210> 389  
 <211> 29  
 <212> PRT  
 <213> Homo sapiens

<400> 389  
 Met Pro Leu Ala Pro Tyr Cys Asp Leu Leu Val Ala Leu Ser Phe Ala  
 1 5 10 15  
 Leu Val Leu Glu Ser Pro Val Asp Ser Ser Asp Phe Thr  
 20 25

<210> 390  
 <211> 138  
 <212> PRT  
 <213> Homo sapiens

<400> 390  
 Met Asn Ser Leu Val Ser Trp Gln Leu Leu Leu Phe Leu Cys Ala Thr  
 1 5 10 15  
 His Phe Gly Glu Pro Leu Glu Lys Val Ala Ser Val Gly Asn Ser Arg  
 20 25 30  
 Pro Thr Gly Gln Gln Leu Glu Ser Leu Gly Leu Leu Ala Pro Gly Glu  
 35 40 45  
 Gln Ser Leu Pro Cys Thr Glu Arg Lys Pro Ala Ala Thr Ala Arg Leu  
 50 55 60  
 Ser Arg Arg Gly Thr Ser Leu Ser Pro Pro Pro Glu Ser Ser Gly Ser  
 65 70 75 80  
 Pro Gln Gln Pro Gly Leu Ser Ala Pro His Ser Arg Gln Ile Pro Ala  
 85 90 95  
 Pro Gln Gly Ala Val Leu Val Gln Arg Glu Lys Asp Leu Pro Asn Tyr  
 100 105 110  
 Asn Trp Asn Ser Phe Gly Leu Arg Phe Gly Lys Arg Glu Ala Ala Pro  
 115 120 125  
 Gly Asn His Gly Arg Ser Ala Gly Arg Gly  
 130 135

<210> 391  
 <211> 74  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (8)  
 <223> Xaa equals any of the naturally occurring L-amino acids

04883371.067001

Met Ser Ala Gly Glu Val Glu Arg Leu Val Ser Glu Leu Ser Gly Gly  
1 5 10 15  
Thr Gly Gly Asp Glu Glu Glu Glu Trp Leu Tyr Gly Asp Glu Asn Glu

20	25	30
Val Glu Arg Pro Glu Glu Glu Asn Ala Ser Ala Asn Pro Pro Ser Gly		
35	40	45
Ile Glu Asp Glu Thr Ala Glu Asn Gly Val Pro Lys Pro Lys Val Thr		
50	55	60
Glu Thr Glu Asp Asp Ser Asp Ser Asp Ser Asp Asp Asp Glu Asp Asp		
65	70	75
Val His Val Thr Ile Gly Asp Ile Lys Thr Gly Ala Pro Gln Tyr Gly		
85	90	95
Ser Tyr Gly Thr Ala Pro Val Asn Leu Asn Ile Lys Thr Gly Gly Arg		
100	105	110
Val Tyr Gly Thr Thr Gly Thr Lys Val Lys Gly Val Asp Leu Asp Ala		
115	120	125
Pro Gly Ser Ile Asn Gly Val Pro Leu Leu Glu Val Asp Leu Asp Ser		
130	135	140
Phe Glu Asp Lys Pro Trp Arg Lys Pro Gly Ala Asp Leu Ser Asp Tyr		
145	150	155
Phe Asn Tyr Gly Phe Asn Glu Asp Thr Trp Lys Ala Tyr Cys Glu Lys		
165	170	175
Gln Lys Arg Ile Arg Met Gly Leu Glu Val Ile Pro Val Thr Ser Thr		
180	185	190
Thr Asn Lys Ile Thr Val Gln Gln Gly Arg Thr Gly Asn Ser Glu Lys		
195	200	205
Glu Thr Ala Leu Pro Ser Thr Lys Ala Glu Phe Thr Ser Pro Pro Ser		
210	215	220
Leu Phe Lys Thr Gly Leu Pro Pro Ser Arg Arg Leu Pro Gly Ala Ile		
225	230	235
Asp Val Ile Gly Gln Thr Ile Thr Ile Ser Arg Val Glu Gly Arg Arg		
245	250	255
Arg Ala Asn Glu Asn Ser Asn Ile Gln Val Leu Ser Glu Arg Ser Ala		
260	265	270
Thr Glu Val Asp Asn Asn Phe Ser Lys Pro Pro Pro Phe Phe Pro Pro		
275	280	285
Gly Ala Pro Pro Thr His Leu Pro Pro Pro Pro Phe Leu Pro Pro Pro		
290	295	300
Pro Thr Val Ser Thr Ala Pro Pro Leu Ile Pro Pro Pro Gly Phe Pro		
305	310	315
Pro Pro Pro Gly Ala Pro Pro Pro Ser Leu Ile Pro Thr Ile Glu Ser		
325	330	335

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Gly His Ser Ser Gly Tyr Asp Ser Arg Ser Ala Arg Ala Phe Pro Tyr  
340 345 350

Gly Asn Val Ala Phe Pro His Leu Pro Gly Ser Ala Pro Ser Trp Pro  
355 360 365

Ser Leu Val Asp Thr Ser Lys Gln Trp Asp Tyr Tyr Ala Arg Arg Glu  
370 375 380

Lys Asp Arg Asp Arg Glu Arg Asp Arg Asp Arg Glu Arg Asp Arg Asp  
385 390 395 400

Arg Asp Arg Glu Arg Glu Arg Thr Arg Glu Arg Glu Arg Glu Arg Asp  
405 410 415

His Ser Pro Thr Pro Ser Val Phe Asn Ser Asp Glu Glu Arg Tyr Arg  
420 425 430

Tyr Arg Glu Tyr Ala Glu Arg Gly Tyr Glu Arg His Arg Ala Ser Arg  
435 440 445

Glu Lys Glu Glu Arg His Arg Glu Arg Arg His Arg Glu Lys Glu Glu  
450 455 460

Thr Arg His Lys Ser Ser Arg Ser Asn Ser Arg Arg Arg His Glu Ser  
465 470 475 480

Glu Glu Gly Asp Ser His Arg Arg His Lys His Lys Lys Ser Lys Arg  
485 490 495

Ser Lys Glu Gly Lys Glu Ala Gly Ser Glu Pro Ala Pro Glu Gln Glu  
500 505 510

Ser Thr Glu Ala Thr Pro Ala Glu Xaa  
515 520

<210> 393

<211> 137

<212> PRT

<213> Homo sapiens

<400> 393

Met Asn Ser Arg Gly Ile Trp Leu Ala Tyr Ile Ile Leu Val Gly Leu  
1 5 10 15

Leu His Met Val Leu Leu Ser Ile Pro Phe Phe Ser Ile Pro Val Val  
20 25 30

Trp Thr Leu Thr Asn Val Ile His Asn Leu Ala Thr Tyr Val Phe Leu  
35 40 45

His Thr Val Lys Gly Thr Pro Phe Glu Thr Pro Asp Gln Gly Lys Ala  
50 55 60

Arg Leu Leu Thr His Trp Glu Gln Met Asp Tyr Gly Leu Gln Phe Thr  
65 70 75 80

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Gly Glu Glu Leu Gln Met Glu Pro Val Xaa  
 180 185

<210> 395  
 <211> 1  
 <212> PRT  
 <213> Homo sapiens

<400> 395  
 Met  
 1

<210> 396  
 <211> 299  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (299)  
 <223> Xaa equals stop translation

<400> 396  
 Met Leu Ser Ile Phe Tyr Phe Ala Ile Pro Val Gly Ser Gly Leu Gly  
 1 5 10 15

Tyr Ile Ala Gly Ser Lys Val Lys Asp Met Ala Gly Asp Trp His Trp  
 20 25 30

Ala Leu Arg Val Thr Pro Gly Leu Gly Val Val Ala Val Leu Leu Leu  
 35 40 45

Phe Leu Val Val Arg Glu Pro Pro Arg Gly Ala Val Glu Arg His Ser  
 50 55 60

Asp Leu Pro Pro Leu Asn Pro Thr Ser Trp Trp Ala Asp Leu Arg Ala  
 65 70 75 80

Leu Ala Arg Asn Pro Ser Phe Val Leu Ser Ser Leu Gly Phe Thr Ala  
 85 90 95

Val Ala Phe Val Thr Gly Ser Leu Ala Leu Trp Ala Pro Ala Phe Leu  
 100 105 110

Leu Arg Ser Arg Val Val Leu Gly Glu Thr Pro Pro Cys Leu Pro Gly  
 115 120 125

Asp Ser Cys Ser Ser Ser Asp Ser Leu Ile Phe Gly Leu Ile Thr Cys  
 130 135 140

Leu Thr Gly Val Leu Gly Val Gly Leu Gly Val Glu Ile Ser Arg Arg  
 145 150 155 160

Leu Arg His Ser Asn Pro Arg Ala Asp Pro Leu Val Cys Ala Thr Gly  
 165 170 175

00000171-000001

Leu Leu Gly Ser Ala Pro Phe Leu Phe Leu Ser Leu Ala Cys Ala Arg  
180 185 190

Gly Ser Ile Val Ala Thr Tyr Ile Phe Ile Phe Ile Gly Glu Thr Leu  
195 200 205

Leu Ser Met Asn Trp Ala Ile Val Ala Asp Ile Leu Leu Tyr Val Val  
210 215 220

Ile Pro Thr Arg Arg Ser Thr Ala Glu Ala Phe Gln Ile Val Leu Ser  
225 230 235 240

His Leu Leu Gly Asp Ala Gly Ser Pro Tyr Leu Ile Gly Leu Ile Ser  
245 250 255

Asp Arg Leu Arg Arg Asn Trp Pro Pro Ser Phe Leu Ser Glu Phe Arg  
260 265 270

Ala Leu Gln Phe Ser Leu Met Leu Cys Ala Phe Val Gly Ala Leu Gly  
275 280 285

Gly Ala Leu Pro Gly His Arg His Leu His Xaa  
290 295

<210> 397

<211> 49

<212> PRT

<213> Homo sapiens

<400> 397

Met Gly Pro Gln Gly Trp Val Arg Pro Leu Lys Thr Ala Pro Lys Leu  
1 5 10 15

Gly Glu Ala Ile Arg Leu Ile Leu Phe Leu Asn Phe Val Lys Gln Cys  
20 25 30

Ile Ala Ser Val Asn Leu Cys Ile Leu Arg Leu Asn Ile Thr Pro Leu  
35 40 45

Leu

<210> 398

<211> 61

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (61)

<223> Xaa equals stop translation

<400> 398

Met Tyr Val Asn Tyr Gly Thr Arg Asn Tyr Ser Thr Glu Gly Pro Ala  
1 5 10 15

00000112000

Ala Leu Leu Asp Gln Ala Lys Leu Ser Leu Leu Val Trp Val Leu Cys  
20 25 30

Phe Val Leu Leu Phe Val Cys Phe Cys Gly Leu Ser Tyr Val Val Ile  
35 40 45

Ala Gln Val Pro Val Gly Leu Leu Cys Ile Thr Glu Xaa  
50 55 60

<210> 399  
<211> 79  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (74)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 399  
Met Leu Trp Phe Ala Asn Phe Phe Thr Tyr Leu Phe Leu Ser Gln Ser  
1 5 10 15

Val Ala Phe Val His Ile Ser His Ile Gly Val Arg Gln Val Asn Thr  
20 25 30

Asn Cys Tyr Phe Ser Arg Lys Ser Tyr Cys Tyr Gly Ile Leu Asn Pro  
35 40 45

Ile Asn Cys Ile Lys Gly Lys Lys Lys Lys Lys Lys Lys Lys Lys  
50 55 60

Lys Lys Lys Lys Ile Pro Ala Gly Arg Xaa Leu Phe Pro Phe Gly  
65 70 75

<210> 400  
<211> 36  
<212> PRT  
<213> Homo sapiens

<400> 400  
Met Pro Gly Ala Phe Ser Glu Thr Val Ile Asn Asp Leu Leu Ser Leu  
1 5 10 15

Phe Leu Val Leu Pro Ala Glu Leu Ser Tyr Ser Thr Leu Ser Gly Val  
20 25 30

Tyr Arg Asn Ala  
35

<210> 401  
<211> 180  
<212> PRT  
<213> Homo sapiens

<220>  
 <221> SITE  
 <222> (126)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (177)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (180)  
 <223> Xaa equals stop translation

<400> 401  
 Met Ala Gln Ser Arg Asp Gly Gly Asn Pro Phe Ala Glu Pro Ser Glu  
 1 5 10 15  
 Leu Asp Asn Pro Phe Gln Asp Pro Ala Val Ile Gln His Arg Pro Ser  
 20 25 30  
 Arg Gln Tyr Ala Thr Leu Asp Val Tyr Asn Pro Phe Glu Thr Arg Glu  
 35 40 45  
 Pro Pro Pro Ala Tyr Glu Pro Pro Ala Pro Ala Pro Leu Pro Pro Pro  
 50 55 60  
 Ser Ala Pro Ser Leu Gln Pro Ser Arg Lys Leu Ser Pro Thr Glu Pro  
 65 70 75 80  
 Lys Asn Tyr Gly Ser Tyr Ser Thr Gln Ala Ser Ala Ala Ala Thr  
 85 90 95  
 Ala Glu Leu Leu Lys Gln Glu Glu Leu Asn Arg Lys Ala Glu Glu  
 100 105 110  
 Leu Asp Arg Arg Ser Glu Ser Cys Ser Met Leu Pro Trp Xaa Ala Gln  
 115 120 125  
 Leu Leu Asp Arg Thr Ile Gly Pro Leu Tyr Leu Leu Phe Val Gln Phe  
 130 135 140  
 Ser Pro Ala Phe Ser Arg Thr Ser Pro Trp Arg Ser Pro Lys Asn Phe  
 145 150 155 160  
 Arg Arg Leu Tyr Pro Pro Cys Thr Thr Ser Gly Cys Ala Ala Arg Trp  
 165 170 175  
 Xaa Phe Ser Xaa  
 180

<210> 402  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

00000171-001001

Met Pro Thr Pro Cys Thr Ser Leu Pro Ser Cys Cys Gln His Arg Ser  
1 5 10 15

Met Pro Leu Phe Ile Pro Leu Ile Phe Phe Leu Ser Leu Leu His Cys  
1 5 10 15

Met Ala Gly Pro Arg Pro Xaa Trp Arg Asp Gln Leu Leu Phe Met Ser  
1 5 10 15

Ala Pro Gln Pro Leu Leu Leu Ala Gln Cys Asn Ser Asp Glu Arg Ala  
100 105 110

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<221> SITE  
 <222> (480)  
 <223> Xaa equals stop translation

<400> 405

Met Ser Asp Gly Phe Asp Arg Ala Pro Gly Ala Gly Arg Gly Arg Xaa  
 1 5 10 15

Arg Gly Leu Gly Arg Gly Gly Gly Gly Pro Xaa Gly Gly Gly Phe Pro  
 20 25 30

Xaa Gly Xaa Xaa Pro Ala Glu Arg Xaa Arg His Gln Pro Pro Gln Pro  
 35 40 45

Lys Ala Pro Gly Phe Leu Gln Pro Xaa Pro Leu Arg Gln Pro Arg Thr  
 50 55 60

Thr Pro Pro Pro Gly Ala Gln Cys Glu Val Pro Ala Ser Pro Gln Arg  
 65 70 75 80

Pro Ser Arg Pro Gly Ala Leu Pro Glu Gln Thr Arg Pro Leu Arg Ala  
 85 90 95

Pro Pro Ser Ser Gln Asp Lys Ile Pro Gln Gln Asn Ser Glu Ser Ala  
 100 105 110

Met Ala Lys Pro Gln Val Val Val Ala Pro Val Leu Met Ser Lys Leu  
 115 120 125

Ser Val Asn Ala Pro Glu Phe Tyr Pro Ser Gly Tyr Ser Ser Ser Tyr  
 130 135 140

Thr Glu Ser Tyr Glu Asp Gly Cys Glu Asp Tyr Pro Thr Leu Ser Glu  
 145 150 155 160

Tyr Val Gln Asp Phe Leu Asn His Leu Thr Glu Gln Pro Gly Ser Phe  
 165 170 175

Glu Thr Glu Ile Glu Gln Phe Ala Glu Thr Leu Asn Gly Cys Val Thr  
 180 185 190

Thr Asp Asp Ala Leu Gln Glu Leu Val Glu Leu Ile Tyr Gln Gln Ala  
 195 200 205

Thr Ser Ile Pro Asn Phe Ser Tyr Met Gly Ala Arg Leu Cys Asn Tyr  
 210 215 220

Leu Ser His His Leu Thr Ile Ser Pro Gln Ser Gly Asn Phe Arg Gln  
 225 230 235 240

Leu Leu Leu Gln Arg Cys Arg Thr Glu Tyr Glu Val Lys Asp Gln Ala  
 245 250 255

Ala Lys Gly Asp Glu Val Thr Arg Lys Arg Phe His Ala Phe Val Leu  
 260 265 270

Phe Leu Gly Glu Leu Tyr Leu Asn Leu Glu Ile Lys Gly Thr Asn Gly  
 275 280 285

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Ala Tyr Glu Lys Phe Cys Leu Glu Ser Glu Arg Lys Arg Lys Gln Xaa  
465 470 475 480

Gly Val Leu His Ala Lys Ile Ile Ala Ala Ile Thr Leu Met Gly Pro  
50 55 60

&lt;211&gt; 74

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<220>  
<221> SITE  
<222> (74)  
<223> Xaa equals stop translation
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<210> 409
<211> 20
<212> PRT
<213> Homo sapiens
```

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<210> 410
<211> 87
<212> PRT
<213> Homo sapiens
```

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400> 410
Met Pro Leu Pro Ser Val Pro Ile Leu Gly Ile Phe Ser Phe Leu Ile
  1              5              10              15
Pro Ser Ser Gln Gly Val Ser Tyr Thr Lys Leu Pro Ile Ser Ser Pro
      20              25              30
Gln Tyr Ser Pro Phe Val Asn Asp His Phe Ser Phe Leu Asn Pro Phe
      35              40              45
Pro Val Gln Ile His Thr Gly Phe Ala Arg Val Gly Ser Tyr Met Gln
      50              55              60
Met Pro Leu Val His Leu Cys Leu Leu Gln Thr Ser Leu Met Lys Asn
  65              70              75              80

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<210> 414
<211> 64
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (64)
<223> Xaa equals stop translation

<400> 414
Met Ala Phe Ile Leu Leu Phe Tyr Cys Leu Met Thr Phe Leu Ser Leu
  1             5             10             15
Glu Gln Asn Ser Ala Thr Val Glu Pro Ser Ser His Glu Ile Leu His
      20             25             30
Leu Leu Gln Asn Cys Phe Glu Leu Leu Arg Thr Ser Thr Ser Gln Cys
      35             40             45
Thr Glu Gly Ile Pro Cys Gln Arg Tyr Gln Asn Gly Leu His Ile Xaa
      50             55             60

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<210> 415  
 <211> 280  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (280)  
 <223> Xaa equals stop translation

<400> 415  
 Met Glu Ala Val Val Asn Leu Tyr Gln Glu Val Met Lys His Ala Asp  
           1                  5                  10                  15  
 Pro Arg Ile Gln Gly Tyr Pro Leu Met Gly Ser Pro Leu Leu Met Thr  
                   20                  25                  30  
 Ser Ile Leu Leu Thr Tyr Val Tyr Phe Val Leu Ser Leu Gly Pro Arg  
                   35                  40                  45  
 Ile Met Ala Asn Arg Lys Pro Phe Gln Leu Arg Gly Phe Met Ile Val  
           50                  55                  60  
 Tyr Asn Phe Ser Leu Val Ala Leu Ser Leu Tyr Ile Val Tyr Glu Phe  
           65                  70                  75                  80  
 Leu Met Ser Gly Trp Leu Ser Thr Tyr Thr Trp Arg Cys Asp Pro Val  
                   85                  90                  95  
 Asp Tyr Ser Asn Ser Pro Glu Ala Leu Arg Met Val Arg Val Ala Trp  
           100                  105                  110  
 Leu Phe Leu Phe Ser Lys Phe Ile Glu Leu Met Asp Thr Val Ile Phe  
           115                  120                  125  
 Ile Leu Arg Lys Lys Asp Gly Gln Val Thr Phe Leu His Val Phe His  
           130                  135                  140  
 His Ser Val Leu Pro Trp Ser Trp Trp Trp Gly Val Lys Ile Ala Pro  
           145                  150                  155                  160  
 Gly Gly Met Gly Ser Phe His Ala Met Ile Asn Ser Ser Val His Val  
           165                  170                  175  
 Ile Met Tyr Leu Tyr Tyr Gly Leu Ser Ala Phe Gly Pro Val Ala Gln  
           180                  185                  190  
 Pro Tyr Leu Trp Trp Lys Lys His Met Thr Ala Ile Gln Leu Ile Gln  
           195                  200                  205  
 Phe Val Leu Val Ser Leu His Ile Ser Gln Tyr Tyr Phe Met Ser Ser  
           210                  215                  220  
 Cys Asn Tyr Gln Tyr Pro Val Ile Ile His Leu Ile Trp Met Tyr Gly

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<210> 416
<211> 284
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<213> Homo sapiens

<220>
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<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (22)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (284)
<223> Xaa equals stop translation

<400> 416
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Ala Phe Ser Ile His Xaa Leu Ala Val Ile Leu Gly Asp Gln Leu Thr
      20                      25              30

Ala Ala Asp Leu Val Pro Ile Phe Asn Gly Phe Leu Lys Asp Leu Asp
      35                      40              45

Glu Val Arg Ile Gly Val Leu Lys His Leu His Asp Phe Leu Lys Leu
      50                      55              60

Leu His Ile Asp Lys Arg Arg Glu Tyr Leu Tyr Gln Leu Gln Glu Phe
      65                      70              75              80

Leu Val Thr Asp Asn Ser Arg Asn Trp Arg Phe Arg Ala Glu Leu Ala
      85                      90              95

Glu Gln Leu Ile Leu Leu Leu Glu Leu Tyr Ser Pro Arg Asp Val Tyr
      100                     105              110

Asp Tyr Leu Arg Pro Ile Ala Leu Asn Leu Cys Ala Asp Lys Val Ser
      115                     120              125

Ser Val Arg Trp Ile Ser Tyr Lys Leu Val Ser Glu Met Val Lys Lys

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130
135
140
Leu His Ala Ala Thr Pro Pro Thr Phe Gly Val Asp Leu Ile Asn Glu
145 150 155 160
Leu Val Glu Asn Phe Gly Arg Cys Pro Lys Trp Ser Gly Arg Gln Ala
165 170 175
Phe Val Phe Val Cys Gln Thr Val Ile Glu Asp Asp Cys Leu Pro Met
180 185 190
Asp Gln Phe Ala Val His Leu Met Pro His Leu Leu Thr Leu Ala Asn
195 200 205
Asp Arg Val Pro Asn Val Arg Val Leu Leu Ala Lys Thr Leu Arg Gln
210 215 220
Thr Leu Leu Glu Lys Asp Tyr Phe Leu Ala Ser Ala Ser Cys His Gln
225 230 235 240
Glu Ala Val Glu Gln Thr Ile Met Ala Leu Gln Met Asp Arg Asp Ser
245 250 255
Asp Val Lys Tyr Phe Ala Ser Ile His Pro Ala Ser Thr Lys Ile Ser
260 265 270
Glu Asp Ala Met Ser Thr Ala Ser Ser Thr Tyr Xaa
275 280
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<211> 187
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<213> Homo sapiens
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<400> 417
Met Leu Phe Leu Phe Phe Val Ile Ile Phe Leu Phe Val Phe Leu Ile
1 5 10 15
Leu Ile Ile Gln Phe Ser Lys Pro Leu Thr Asn Pro His Pro Pro Ala
20 25 30
Gly Xaa Ser Asp Arg Arg Arg Arg Tyr Ser Ser Tyr Arg Ser His Asn

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35	40	45
His Tyr Gln Arg Gln Arg Val Leu Gln Lys Glu Arg Ala Ile Glu Glu		
50	55	60
Arg Arg Val Val Phe Ile Gly Lys Ile Pro Gly Arg Met Thr Arg Ser		
65	70	75
Glu Leu Lys Gln Arg Phe Ser Val Phe Gly Glu Ile Glu Glu Cys Thr		
85	90	95
Ile His Phe Arg Val Gln Gly Asp Asn Tyr Gly Phe Val Thr Tyr Arg		
100	105	110
Tyr Ala Glu Glu Ala Phe Ala Ala Ile Glu Ser Gly His Lys Leu Arg		
115	120	125
Gln Ala Asp Glu Gln Pro Phe Asp Leu Cys Phe Gly Gly Arg Arg Xaa		
130	135	140
Xaa Cys Lys Arg Ser Tyr Ser Asp Leu Asp Ser Asn Arg Glu Asp Phe		
145	150	155
Asp Pro Ala Pro Val Lys Ser Lys Phe Asp Ser Leu Asp Phe Asp Thr		
165	170	175
Leu Leu Lys Gln Ala Gln Lys Asn Leu Arg Arg		
180	185	

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000011-001001

<223> Xaa equals any of the naturally occurring L-amino acids

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 $\langle 222 \rangle$  (205)

<223> Xaa equals any of the naturally occurring L-amino acids

 $\langle 220 \rangle$ 

&lt;221&gt; SITE

 $\langle 222 \rangle$  (207)

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<220>

&lt;221&gt; SITE

 $\langle 222 \rangle$  (208)

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<220>

&lt;221&gt; SITE

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 $\langle 222 \rangle \quad (212)$ 

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

&lt;221&gt; SITE

 $\langle 222 \rangle$  (213)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

&lt;221&gt; SITE

 $\langle 222 \rangle \quad (214)$ 

<223> Xaa equals any of the naturally occurring L-amino acids

 $\langle 220 \rangle$ 

&lt;221&gt; SITE

 $\langle 222 \rangle$  {215}

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

&lt;221&gt; SITE

 $\langle 222 \rangle \quad (216)$ 

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

&lt;221&gt; SITE

<222> (217)

<223> Xaa equals any of the naturally occurring L-amino acids

 $\langle 220 \rangle$ 

&lt;221&gt; SITE

 $\langle 222 \rangle$  (218)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (237)  
 <223> Xaa equals stop translation  
  
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 Ser Gln Leu Thr Ser Glu Ser Tyr Tyr Lys Glu Thr Leu Ser Val Pro  
           20                  25                  30  
 Thr Val Glu His Ile Ile Gln Glu Leu Lys Asp Ile Phe Ser Glu Gln  
           35                  40                  45  
 His Leu Lys Ala Leu Lys Cys Leu Ser Leu Val Pro Ser Val Met Gly  
           50                  55                  60  
 Gln Leu Lys Phe Asn Thr Ser Glu Glu His His Ala Asp Met Tyr Arg

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65	70										75										80																		
Ser Asp Leu Pro Asn Pro Asp Thr Leu Ser Ala Glu Leu His Cys Trp																																							
85										90										95																			
Arg Ile Lys Trp Lys His Arg Gly Lys Asp Ile Glu Leu Pro Ser Thr																																							
100										105										110																			
Ile Tyr Glu Ala Leu His Leu Pro Asp Ile Lys Phe Phe Pro Asn Val																																							
115										120										125																			
Tyr Ala Leu Leu Lys Val Leu Cys Ile Leu Pro Val Met Lys Val Glu																																							
130										135										140																			
Asn Glu Arg Tyr Glu Asn Gly Arg Lys Arg Leu Lys Ala Tyr Leu Arg																																							
145										150										155																			
Asn Thr Leu Thr Asp Gln Arg Ser Ser Asn Leu Ala Leu Leu Asn Ile																																							
165										170										175																			
Asn Phe Asp Ile Lys His Asp Leu Asp Leu Met Val Asp Thr Tyr Ile																																							
180										185										190																			
Lys Leu Tyr Thr Xaa Xaa Ser Xaa Leu Xaa Thr Xaa Xaa Ser Xaa Xaa																																							
195										200										205																			
Val Glu Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Gly Xaa Xaa Xaa Xaa																																							
210										215										220																			
Asp Xaa Xaa Xaa Arg Glu Lys Ala Val Arg Cys Met Xaa																																							
225										230										235																			
<p>&lt;210&gt; 419</p> <p>&lt;211&gt; 192</p> <p>&lt;212&gt; FRT</p> <p>&lt;213&gt; Homo sapiens</p> <p>&lt;220&gt;</p> <p>&lt;221&gt; SITE</p> <p>&lt;222&gt; (192)</p> <p>&lt;223&gt; Xaa equals stop translation</p> <p>&lt;400&gt; 419</p> <p>Met Lys Pro Met Ala Val Val Ala Ser Thr Val Leu Gly Leu Val Gln</p> <p>1 5 10 15</p> <p>Asn Met Arg Ala Phe Gly Gly Ile Leu Val Val Val Tyr Tyr Val Phe</p> <p>20 25 30</p> <p>Ala Ile Ile Gly Ile Asn Leu Phe Arg Gly Val Ile Val Ala Leu Pro</p> <p>35 40 45</p> <p>Gly Asn Ser Ser Leu Ala Pro Ala Asn Gly Ser Ala Pro Cys Gly Ser</p> <p>50 55 60</p> <p>Phe Glu Gln Leu Glu Tyr Trp Ala Asn Asn Phe Asp Asp Phe Ala Ala</p> <p>65 70 75 80</p>																																							

Ala Leu Val Thr Leu Trp Asn Leu Met Val Val Asn Asn Trp Gln Val  
85 90 95

Phe Leu Asp Ala Tyr Arg Arg Tyr Ser Gly Pro Trp Ser Lys Ile Tyr  
100 105 110

Phe Val Leu Trp Trp Leu Val Ser Ser Val Ile Trp Val Asn Leu Phe  
115 120 125

Leu Ala Leu Ile Leu Glu Asn Phe Leu His Lys Trp Asp Pro Arg Ser  
130 135 140

His Leu Gln Pro Leu Ala Gly Thr Pro Glu Ala Thr Tyr Gln Met Thr  
145 150 155 160

Val Glu Leu Leu Phe Arg Asp Ile Leu Glu Glu Pro Gly Glu Asp Glu  
165 170 175

Leu Thr Glu Arg Leu Ser Gln His Pro His Leu Trp Leu Cys Arg Xaa  
180 185 190

<210> 420  
<211> 21  
<212> PRT  
<213> Homo sapiens

<400> 420  
Asn Val Val Val Val Ala Phe Gly Leu Ile Leu Ile Ile Glu Ser Leu  
1 5 10 15

Gly Glu Gln Cys Pro  
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<210> 421  
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<212> PRT  
<213> Homo sapiens

<220>  
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<222> (51)  
<223> Xaa equals stop translation

<400> 421  
Met Asn Trp Gly Leu Ser Ile Trp Leu His Tyr Tyr Glu Lys Lys Lys  
1 5 10 15

Glu Gln Val Phe Leu Val Ile Leu Ala His Val Val Arg Arg Cys Ala  
20 25 30

Ser Asp Gly Ile Leu Gln Phe Glu Ser Ser Leu Leu Lys Met Arg Arg  
35 40 45

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Ala Pro Xaa  
50

<210> 422  
<211> 32  
<212> PRT  
<213> Homo sapiens

<400> 422  
Met Leu Ile Ile Ser Leu Arg Pro Gln Phe Pro Ser Leu Ile Val Gln  
1 5 10 15  
Leu Glu Cys Ser Val Leu Phe Leu Pro Ile Ser Leu Asn Leu Leu Leu  
20 25 30

<210> 423  
<211> 163  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (163)  
<223> Xaa equals stop translation

<400> 423  
Met Val Lys Val Cys Asn Asp Ser Asp Arg Trp Ser Leu Ile Ser Leu  
1 5 10 15  
Ser Asn Asn Ser Gly Lys Asn Val Glu Leu Lys Phe Val Asp Ser Leu  
20 25 30  
Arg Arg Gln Phe Glu Phe Ser Val Asp Ser Phe Gln Ile Lys Leu Asp  
35 40 45  
Ser Leu Leu Leu Phe Tyr Glu Cys Ser Glu Asn Pro Met Thr Glu Thr  
50 55 60  
Phe His Pro Thr Ile Ile Gly Glu Ser Val Tyr Gly Asp Phe Gln Glu  
65 70 75 80  
Ala Phe Asp His Leu Cys Asn Lys Ile Ile Ala Thr Arg Asn Pro Glu  
85 90 95  
Glu Ile Arg Gly Gly Gly Leu Leu Lys Tyr Cys Asn Leu Leu Val Arg  
100 105 110  
Gly Phe Arg Pro Ala Ser Asp Glu Ile Lys Thr Leu Gln Arg Tyr Met  
115 120 125  
Cys Ser Arg Phe Phe Ile Asp Phe Ser Asp Ile Gly Glu Gln Gln Arg  
130 135 140

000011-001001

Lys Leu Glu Ser Tyr Leu Gln Asn His Phe Val Gly Ile Gly Arg Pro  
 145 150 155 160

Gln Val Xaa

<210> 424  
 <211> 174  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (174)  
 <223> Xaa equals stop translation

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 Met Ala Pro Lys Gly Lys Val Gly Thr Arg Gly Lys Lys Gln Ile Phe  
 1 5 10 15  
 Glu Glu Asn Arg Glu Thr Leu Lys Phe Tyr Leu Arg Ile Ile Leu Gly  
 20 25 30  
 Ala Asn Ala Ile Tyr Cys Leu Val Thr Leu Val Phe Phe Tyr Ser Ser  
 35 40 45  
 Ala Ser Phe Trp Ala Trp Leu Ala Leu Gly Phe Ser Leu Ala Val Tyr  
 50 55 60  
 Gly Ala Ser Tyr His Ser Met Ser Ser Met Ala Arg Ala Ala Phe Ser  
 65 70 75 80  
 Glu Asp Gly Ala Leu Met Asp Gly Gly Met Asp Leu Asn Met Glu Gln  
 85 90 95  
 Gly Met Ala Glu His Leu Lys Asp Val Ile Leu Leu Thr Ala Ile Val  
 100 105 110  
 Gln Val Leu Ser Cys Phe Ser Leu Tyr Val Trp Ser Phe Trp Leu Leu  
 115 120 125  
 Ala Pro Gly Arg Ala Leu Tyr Leu Leu Trp Val Asn Val Leu Gly Pro  
 130 135 140  
 Trp Phe Thr Ala Asp Ser Gly Thr Pro Ala Pro Glu His Asn Glu Lys  
 145 150 155 160  
 Arg Gln Arg Arg Gln Glu Arg Arg Gln Met Lys Arg Leu Xaa  
 165 170

<210> 425  
 <211> 50  
 <212> PRT  
 <213> Homo sapiens

0000171-001801

<220>  
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 <222> (50)  
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 Met Glu Leu Pro Lys Gly Leu Gln Gly Val Gly Pro Val Ala Met Met  
   1                  5                  10                  15  
 Arg Pro Phe Tyr Leu Leu Leu Pro Val Leu Cys Thr Gln Ala Leu Arg  
           20                  25                  30  
 Gln Ser Gln Gly Lys Ser Pro Leu Leu Trp Lys Arg Thr Cys Cys Leu  
           35                  40                  45  
 Ala Xaa  
   50

<210> 426  
 <211> 120  
 <212> PRT  
 <213> Homo sapiens  
  
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 <222> (96)  
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 <400> 426  
 Met Leu Gly Lys Gly Gly Arg Ala Gly Leu Leu Arg Tyr Arg Leu  
   1                  5                  10                  15  
 Leu Tyr Phe Thr Leu Val Val Gly Glu Gly Glu Pro Gly Glu Asn Lys  
           20                  25                  30  
 Val Thr Ile Pro Phe Phe Glu Thr Gly Lys Lys Ile Ile Phe Cys Ser  
           35                  40                  45  
 Val Lys Met Val Glu Asn Ser Asn Val Pro Ser His Lys Gly Pro Val  
           50                  55                  60  
 Pro Leu Arg Ser Glu Gln Trp Glu Leu Lys Ile Ser Glu Thr Leu Gly  
   65                  70                  75                  80  
 Glu Gly Lys Ile Gly Phe Leu Leu Ile Gly Arg Cys Ser Ser Gly Xaa  
           85                  90                  95  
 Gly Gly Leu Cys Phe Cys Trp Asp Val Leu Cys Cys Met Tyr Ala Tyr  
           100                  105                  110  
 Met Asp Arg Ser Leu Leu Ser Leu  
   115                  120

<210> 427  
 <211> 159  
 <212> PRT

00632171-051300



<213> Homo sapiens

<220>

<221> SITE

<222> (159)

<223> Xaa equals stop translation

<400> 427

Met Thr His Leu Leu Leu Thr Ala Thr Val Thr Pro Ser Glu Gln Asn  
1 5 10 15

Ser Ser Arg Glu Pro Gly Trp Glu Thr Ala Met Ala Lys Asp Ile Leu  
20 25 30

Gly Glu Ala Gly Leu His Phe Asp Glu Leu Asn Lys Leu Arg Val Leu  
35 40 45

Asp Pro Glu Val Thr Gln Gln Thr Ile Glu Leu Lys Glu Glu Cys Lys  
50 55 60

Asp Phe Val Asp Lys Ile Gly Gln Phe Gln Lys Ile Val Gly Gly Leu  
65 70 75 80

Ile Glu Leu Val Asp Gln Leu Ala Lys Glu Ala Glu Asn Glu Lys Met  
85 90 95

Lys Ala Ile Gly Ala Arg Asn Leu Leu Lys Ser Ile Ala Lys Gln Arg  
100 105 110

Glu Ala Gln Gln Gln Gln Leu Ala Leu Ile Ala Glu Lys Lys Met  
115 120 125

Gln Leu Glu Arg Tyr Arg Val Glu Tyr Glu Ala Leu Cys Lys Val Glu  
130 135 140

Ala Glu Gln Asn Glu Phe Ile Asp Gln Phe Ile Phe Gln Lys Xaa  
145 150 155

<210> 428

<211> 154

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (154)

<223> Xaa equals stop translation

<400> 428

Met Asn Val Gly Val Ala His Ser Glu Val Asn Pro Asn Thr Arg Val  
1 5 10 15

Met Asn Ser Arg Gly Met Trp Leu Thr Tyr Ala Leu Gly Val Gly Leu  
20 25 30

Leu His Ile Val Leu Leu Ser Ile Pro Phe Phe Ser Val Pro Val Ala  
35 40 45

Trp Thr Leu Thr Asn Ile Ile His Asn Leu Gly Met Tyr Val Phe Leu  
50 55 60

His Ala Val Lys Gly Thr Pro Phe Glu Thr Pro Asp Gln Gly Lys Ala  
65 70 75 80

Arg Leu Leu Thr His Trp Glu Gln Leu Asp Tyr Gly Val Gln Phe Thr  
85 90 95

Ser Ser Arg Lys Phe Phe Thr Ile Ser Pro Ile Ile Leu Tyr Phe Leu  
100 105 110

Ala Ser Phe Tyr Thr Lys Tyr Asp Pro Thr His Phe Ile Leu Asn Thr  
115 120 125

Ala Ser Leu Leu Ser Val Leu Ile Pro Lys Met Pro Gln Leu His Gly  
130 135 140

Val Arg Ile Phe Gly Ile Asn Lys Tyr Xaa  
145 150

<210> 429

<211> 204

<212> PRT

<213> Homo sapiens

<400> 429

Met Val Cys Gly Gly Phe Ala Cys Ser Lys Asn Cys Leu Cys Ala Leu  
1 5 10 15

Asn Leu Leu Tyr Thr Leu Val Ser Leu Leu Leu Ile Gly Ile Ala Ala  
20 25 30

Trp Gly Ile Gly Phe Gly Leu Ile Ser Ser Leu Arg Val Val Gly Val  
35 40 45

Val Ile Ala Val Gly Ile Phe Leu Phe Leu Ile Ala Leu Val Gly Leu  
50 55 60

Ile Gly Ala Val Lys His His Gln Val Leu Leu Phe Phe Tyr Met Ile  
65 70 75 80

Ile Leu Leu Leu Val Phe Ile Val Gln Phe Ser Val Ser Cys Ala Cys  
85 90 95

Leu Ala Leu Asn Gln Glu Gln Gln Gly Gln Leu Leu Glu Val Gly Trp  
100 105 110

Asn Asn Thr Ala Ser Ala Arg Asn Asp Ile Gln Arg Asn Leu Asn Cys  
115 120 125

Cys Gly Phe Arg Ser Val Asn Pro Asn Asp Thr Cys Leu Ala Ser Cys  
130 135 140

Val Lys Ser Asp His Ser Cys Ser Pro Cys Ala Pro Ile Ile Gly Glu  
145 150 155 160

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Tyr Ala Gly Glu Val Leu Arg Phe Val Gly Gly Ile Gly Leu Phe Phe  
 165 170 175

Ser Phe Thr Glu Ile Leu Gly Val Trp Leu Thr Tyr Arg Tyr Arg Asn  
 180 185 190

Gln Lys Asp Pro Arg Ala Asn Pro Ser Ala Phe Leu  
 195 200

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<211> 67

<212> PRT

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<220>

<221> SITE

<222> {67}

<223> Xaa equals stop translation

<400> 430

Met Leu Gln Ser Ile Ile Lys Asn Ile Trp Ile Pro Met Lys Pro Tyr  
 1 5 10 15

Tyr Thr Lys Val Tyr Gln Glu Ile Trp Ile Gly Met Gly Leu Met Gly  
 20 25 30

Phe Ile Val Tyr Lys Ile Arg Ala Ala Asp Lys Arg Ser Lys Ala Leu  
 35 40 45

Lys Ala Ser Ala Pro Ala Pro Gly His His Asn Gln Ile Tyr Leu Glu  
 50 55 60

Tyr Met Xaa  
 65

<210> 431

<211> 25

<212> PRT

<213> Homo sapiens

<400> 431

Met Leu Gly Val Ser Leu Phe Leu Leu Val Val Leu Tyr His Tyr Val  
 1 5 10 15

Ala Val Asn Asn Pro Lys Lys Gln Glu  
 20 25

<210> 432

<211> 299

<212> PRT

<213> Homo sapiens

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<221> SITE

10890712860

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 Gly Gly Ala Gly Ala Pro Ser Gly Thr Val Pro Val Leu Phe Cys Phe  
           20                  25                  30  
 Ser Val Phe Ala Arg Pro Ser Ser Val Pro His Gly Ala Gly Tyr Glu  
           35                  40                  45  
 Leu Leu Ile Gln Lys Phe Leu Ser Leu Tyr Gly Asp Gln Ile Asp Met  
   50                  55                  60  
 His Arg Lys Phe Val Val Gln Leu Phe Ala Glu Glu Trp Gly Gln Tyr  
   65                  70                  75                  80  
 Val Asp Leu Pro Lys Gly Phe Ala Val Ser Glu Arg Cys Lys Val Arg  
           85                  90                  95  
 Leu Val Pro Leu Gln Ile Gln Leu Thr Thr Leu Gly Asn Leu Thr Pro  
   100                  105                  110  
 Ser Ser Thr Val Phe Phe Cys Cys Asp Met Gln Glu Arg Phe Arg Pro  
   115                  120                  125  
 Ala Ile Lys Tyr Phe Gly Asp Ile Ile Ser Val Gly Gln Arg Leu Leu  
   130                  135                  140  
 Gln Gly Ala Arg Ile Leu Gly Ile Pro Val Ile Val Thr Glu Gln Tyr  
   145                  150                  155                  160  
 Pro Lys Gly Leu Gly Ser Thr Val Gln Glu Ile Asp Leu Thr Gly Val  
   165                  170                  175  
 Lys Leu Val Leu Pro Lys Thr Lys Phe Ser Met Val Leu Pro Glu Val  
   180                  185                  190  
 Glu Ala Ala Leu Ala Glu Ile Pro Gly Val Arg Ser Val Val Leu Phe  
   195                  200                  205

000001.051001

Gly Val Glu Thr His Val Cys Ile Gln Gln Thr Ala Leu Glu Leu Val  
210 215 220

Gly Arg Gly Val Glu Val His Ile Val Ala Asp Ala Thr Ser Ser Arg  
225 230 235 240

Ser Met Met Asp Arg Met Phe Ala Leu Glu Arg Leu Ala Xaa Xaa Gly  
245 250 255

Ile Ile Val Thr Thr Ser Glu Ala Val Leu Leu Gln Leu Val Ala Asp  
260 265 270

Lys Asp His Pro Lys Phe Lys Glu Ile Gln Asn Leu Ile Lys Ala Ser  
275 280 285

Ala Pro Glu Ser Gly Leu Leu Ser Lys Val Xaa  
290 295

<210> 433

<211> 86

<212> PRT

<213> Homo sapiens

<400> 433

Met Gln Ser Ser Tyr Ile Ile Ser Gly Cys Leu Phe Ser Ile Leu Phe  
1 5 10 15

Pro Leu Phe Ile Ile Ser Ala Asn Glu Ala Lys Thr Pro Gly Lys Ala  
20 25 30

Tyr Leu Phe Gln Leu Arg Leu Phe Ser Leu Val Val Phe Leu Ser Asn  
35 40 45

Arg Leu Phe His Lys Thr Val Tyr Leu Gln Ser Ala Leu Ser Ser Ser  
50 55 60

Thr Ser Ala Glu Lys Phe Pro Ser Pro His Pro Ser Pro Ala Lys Leu  
65 70 75 80

Lys Ala Thr Ala Gly His  
85

<210> 434

<211> 198

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (193)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (196)

<223> Xaa equals any of the naturally occurring L-amino acids

09032171.001801

<220>  
 <221> SITE  
 <222> (198)  
 <223> Xaa equals stop translation

<400> 434  
 Met Phe Gly Cys Leu Val Ala Gly Arg Leu Val Gln Thr Ala Ala Gln  
 1 5 10 15  
 Gln Val Ala Glu Asp Lys Phe Val Phe Asp Leu Pro Asp Tyr Glu Ser  
 20 25 30  
 Ile Asn His Val Val Val Phe Met Leu Gly Thr Ile Pro Phe Pro Glu  
 35 40 45  
 Gly Met Gly Gly Ser Val Tyr Phe Ser Tyr Pro Asp Ser Asn Gly Met  
 50 55 60  
 Pro Val Trp Gln Leu Leu Gly Phe Val Thr Asn Gly Lys Pro Ser Ala  
 65 70 75 80  
 Ile Phe Lys Ile Ser Gly Leu Lys Ser Gly Glu Gly Ser Gln His Pro  
 85 90 95  
 Phe Gly Ala Met Asn Ile Val Arg Thr Pro Ser Val Ala Gln Ile Gly  
 100 105 110  
 Ile Ser Val Glu Leu Leu Asp Ser Met Ala Gln Gln Thr Pro Val Gly  
 115 120 125  
 Asn Ala Ala Val Ser Ser Val Asp Ser Phe Thr Gln Phe Thr Gln Lys  
 130 135 140  
 Met Leu Asp Asn Phe Tyr Asn Phe Ala Ser Ser Phe Ala Val Ser Gln  
 145 150 155 160  
 Ala Gln Met Thr Pro Ser Pro Ser Glu Met Phe Ile Pro Ala Asn Val  
 165 170 175  
 Val Leu Lys Trp Tyr Glu Asn Phe Gln Arg Arg Leu Ala Gln Asn Pro  
 180 185 190  
 Xaa Phe Trp Xaa Thr Xaa  
 195

<210> 435  
 <211> 47  
 <212> PRT  
 <213> Homo sapiens  
 <220>  
 <221> SITE  
 <222> (47)  
 <223> Xaa equals stop translation

<400> 435

0082471.051001

Met Gly Leu Pro Leu Met Ala Leu Met Trp Ser Thr Leu Pro Ala Ser  
 1 5 10 15  
 Ala Gly Val Asn Phe Ile Leu Ala Leu Pro Leu Leu Leu Trp Lys  
 20 25 30  
 Asn Arg Gly Gly Val Gly Arg Ser Val Met Ser Ala Val Glu Xaa  
 35 40 45

<210> 436  
 <211> 370  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (370)  
 <223> Xaa equals stop translation

<400> 436  
 Met Lys Lys Val Glu Glu Lys Arg Val Asp Val Asn Ser Ala Val Ala  
 1 5 10 15  
 Met Gly Glu Val Ile Leu Ala Val Cys His Pro Asp Cys Ile Thr Thr  
 20 25 30  
 Ile Lys His Trp Ile Thr Ile Ile Arg Ala Arg Phe Glu Glu Val Leu  
 35 40 45  
 Thr Trp Ala Lys Gln His Gln Gln Arg Leu Glu Thr Ala Leu Ser Glu  
 50 55 60  
 Leu Val Ala Asn Ala Glu Leu Leu Glu Glu Leu Leu Ala Trp Ile Gln  
 65 70 75 80  
 Trp Ala Glu Thr Thr Leu Ile Gln Arg Asp Gln Glu Pro Ile Pro Gln  
 85 90 95  
 Asn Ile Asp Arg Val Lys Ala Leu Ile Ala Glu His Gln Thr Phe Met  
 100 105 110  
 Glu Glu Met Thr Arg Lys Gln Pro Asp Val Asp Arg Val Thr Lys Thr  
 115 120 125  
 Tyr Lys Arg Lys Asn Ile Glu Pro Thr His Ala Pro Phe Ile Glu Lys  
 130 135 140  
 Ser Arg Ser Gly Gly Arg Lys Ser Leu Ser Gln Pro Thr Pro Pro Pro  
 145 150 155 160  
 Met Pro Ile Leu Ser Gln Ser Glu Ala Lys Asn Pro Arg Ile Asn Gln  
 165 170 175  
 Leu Ser Ala Arg Trp Gln Gln Val Trp Leu Leu Ala Leu Glu Arg Gln  
 180 185 190  
 Arg Lys Leu Asn Asp Ala Leu Asp Arg Leu Glu Glu Leu Lys Glu Phe

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195                      200                      205

Ala Asn Phe Asp Phe Asp Val Trp Arg Lys Lys Tyr Met Arg Trp Met  
210                      215                      220

Asn His Lys Lys Ser Arg Val Met Asp Phe Phe Arg Arg Ile Asp Lys  
225                      230                      235                      240

Asp Gln Asp Gly Lys Ile Thr Arg Gln Glu Phe Ile Asp Gly Ile Leu  
245                      250                      255

Ala Ser Lys Phe Pro Thr Thr Lys Leu Glu Met Thr Ala Val Ala Asp  
260                      265                      270

Ile Phe Asp Arg Asp Gly Asp Gly Tyr Ile Asp Tyr Tyr Glu Phe Val  
275                      280                      285

Ala Ala Leu His Pro Asn Lys Asp Ala Tyr Arg Pro Thr Thr Asp Ala  
290                      295                      300

Asp Lys Ile Glu Asp Glu Val Thr Arg Gln Val Ala Gln Cys Lys Cys  
305                      310                      315                      320

Ala Lys Arg Phe Gln Val Glu Gln Ile Gly Glu Asn Lys Tyr Arg Phe  
325                      330                      335

Phe Leu Gly Asn Gln Phe Gly Asp Ser Gln Gln Leu Arg Leu Val Arg  
340                      345                      350

Ile Leu Arg Asn Arg Asp Gly Ser Arg Trp Trp Arg Met Asp Gly Leu  
355                      360                      365

Gly Xaa  
370

&lt;210&gt; 437

&lt;211&gt; 30

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (8)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 437

Met Asn Val Lys Thr Phe Ser Xaa Asp His Met His Phe Leu Cys Cys  
1                      5                      10                      15

Leu Tyr Leu Arg Tyr Val Thr Phe Val Tyr Leu Asn Leu Phe  
20                      25                      30

&lt;210&gt; 438

&lt;211&gt; 24

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

03082173.061801



Met Glu Pro His Leu Arg Cys Arg Val Thr Arg Val Arg Gly Ser Leu  
1 5 10 15

Gly Asn Thr Gly Arg Trp Leu Leu  
20

<213> Homo sapiens

<223> Xaa equals any of the naturally occurring L-amino acids

Met His Tyr Leu Val Leu Gly Gly Leu Gly Val Phe Leu Phe Phe Ser  
1 5 10 15

Cys Phe Val Phe Leu Phe Phe Xaa Phe Ser Phe Ala Phe Phe Pro Phe  
20 25 30

Tyr Leu Glu Gly Met Gly Gly Ser Gly Asn Arg Glu Val Gly Gly Gly  
35 40 45

Phe Cys Leu Phe Phe  
50

<213> Homo sapiens

<223> Xaa equals stop translation

Met Val Ser Lys Ala Leu Leu Arg Leu Val Ser Ala Val Asn Arg Arg  
1 5 10 15

Arg Met Lys Leu Leu Leu Gly Ile Ala Leu Leu Ala Tyr Val Ala Ser  
20 25 30

Val Trp Gly Asn Phe Val Asn Met Arg Ser Ile Gln Glu Asn Gly Glu  
35 40 45

Leu Lys Ile Glu Ser Lys Ile Glu Glu Met Val Glu Pro Leu Arg Glu  
50 55 60

Lys Ile Arg Asp Leu Glu Lys Ser Phe Thr Gln Lys Tyr Pro Pro Val  
65 70 75 80

Lys Phe Leu Ser Glu Lys Asp Arg Lys Arg Ile Leu Ile Thr Gly Gly  
                   85                                  90                                  95  
 Ala Gly Phe Val Gly Ser His Leu Thr Asp Lys Leu Met Met Asp Gly  
                   100                                  105                                  110  
 His Glu Val Thr Val Val Asp Asn Phe Phe Thr Gly Arg Lys Arg Asn  
                   115                                  120                                  125  
 Val Glu His Trp Ile Gly His Glu Asn Phe Glu Leu Ile Asn His Asp  
                   130                                  135                                  140  
 Val Trp Ser Pro Ser Thr Ser Arg Leu Thr Arg Tyr Thr Ile Trp His  
                   145                                  150                                  155                                  160  
 Leu Gln Pro Pro Leu Gln Thr Thr Cys Ile Ile Leu Ser Arg His Xaa  
                   165                                  170                                  175

<210> 441  
 <211> 77  
 <212> PRT  
 <213> Homo sapiens

<400> 441  
 Met Leu Arg Cys Trp Pro Leu Phe Trp Leu Pro Leu Val Ser Pro Phe  
                   1                                  5                                  10                                  15  
 Cys Ser Leu Phe Trp Leu Leu Val Glu Trp Phe Gly Thr Asn Ile Asp  
                   20                                  25                                  30  
 Arg Glu Ser Tyr Asp Ala Ile Gly Gly Pro Ser Trp Met Thr Ala Ser  
                   35                                  40                                  45  
 Ser Phe Cys Leu Ser Asn Ser Asn Ile Trp Ser Leu Glu Ile Ser Ser  
                   50                                  55                                  60  
 Gly Ser Thr Ser Val Val His Ser Gln Gln Ala Met Asp  
                   65                                  70                                  75

<210> 442  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 442  
 Met Arg Ser Cys Glu Ile Gln Leu Cys Val Trp Leu Leu Val Ser Ser  
                   1                                  5                                  10                                  15  
 His Val Asp Met Val Leu Gly Gly Ser Pro Ser Thr Leu Tyr Met Met  
                   20                                  25                                  30

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<210> 443  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<400> 443  
 Met Val Val Asn Ser Leu Cys Phe Leu Ser Leu Leu Val Ile Leu  
 1 5 10 15  
 Glu Leu Ser Thr Asp Ser Ser Ala Arg Leu Leu Tyr His Glu  
 20 25 30

<210> 444  
 <211> 69  
 <212> PRT  
 <213> Homo sapiens

<400> 444  
 Met Asp Lys Gln Lys His Leu Glu Val Arg Arg Ser Val Phe Lys Ile  
 1 5 10 15  
 Gln Gly Lys Ile Ala Phe Ser Leu Met Phe Val Leu Lys Asp Leu Ser  
 20 25 30  
 Pro Thr Ile Phe Ser His Ser Ile Leu Leu Leu Leu Pro His His Val  
 35 40 45  
 Leu Pro Cys Thr Pro Gln Met Val Arg Gly Val Thr Gln Val Leu Arg  
 50 55 60  
 Glu Phe Gly Asp Gln  
 65

<210> 445  
 <211> 63  
 <212> PRT  
 <213> Homo sapiens

<400> 445  
 Met Val Thr Gly Val Asn Pro Pro Leu Pro Pro Gln Leu Gln His Pro  
 1 5 10 15  
 Arg Pro Ile Asn Gln Leu Gly Ser Gly Ser Phe Phe Phe Ser Ser Phe  
 20 25 30  
 Val Met Leu Arg Phe Lys Met Cys Val Leu His Cys Tyr Arg Leu Leu  
 35 40 45  
 Phe Cys Leu Ile Lys Asp Phe Ser Pro Thr Phe Val Trp Thr His  
 50 55 60

<210> 446

09082171.061801

<211> 43  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> {43}  
 <223> Xaa equals stop translation

<400> 446  
 Met Lys Phe Ser Leu Val Leu Leu Ile Lys Ile Ile Ser Phe Glu Arg  
           1                  5                  10                  15  
 Leu Leu Ile Phe Leu Phe Pro Leu Ser Phe Leu Pro Asn Ile Trp Arg  
                   20                  25                  30  
 Arg Val Met Val Asn Leu Asn Ile Leu Phe Xaa  
                   35                  40

<210> 447  
 <211> 33  
 <212> PRT  
 <213> Homo sapiens

<400> 447  
 Met Leu Leu Phe Pro Ser Leu Leu Phe Ala Ala Thr Tyr Asn Val Ala  
           1                  5                  10                  15  
 Asn Pro Ser Arg Leu Ile Leu Tyr Met Ile Ser Ala Gly Ala Asp Ser  
                   20                  25                  30  
 Gln

<210> 448  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> {48}  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 448  
 Met Trp Gln Val Arg Gly Leu Pro Pro Val Pro Leu Leu Leu Thr Met  
           1                  5                  10                  15  
 Ser Pro Pro Pro Cys Leu Ser Ser Pro Phe Pro Phe Ile Ser Val Pro  
                   20                  25                  30  
 Leu Phe Glu Ala Val Pro Ile Ser Val Ser Asp Gln Pro Ser Pro Xaa  
           35                  40                  45  
 Leu Thr Thr Leu Leu  
           50

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<210> 449  
 <211> 64  
 <212> PRT  
 <213> Homo sapiens

<400> 449  
 Met Ile Thr Ser Val Leu Val Phe Leu Ile Phe Phe Phe Pro Tyr Leu  
   1                  5                  10                  15  
 Ser Leu Val Thr Leu Leu Gln Ala Arg Asn Leu Trp Val Ile His Arg  
                   20                  25                  30  
 Ala Ala Leu Cys Glu Ser Gly Leu Phe His Trp Arg Lys Gly Ile Glu  
                   35                  40                  45  
 Asn Gln Leu Glu Pro Met Tyr Phe Leu Pro His Gly Thr Leu Phe Leu  
                   50                  55                  60

<210> 450  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<400> 450  
 Met Leu Tyr Ser Cys Glu Pro Tyr Leu Ile Ile Leu Asn Ile Tyr Ser  
   1                  5                  10                  15  
 Gln Lys Ala Phe Tyr Phe Tyr Phe Phe Glu Gly Ser Phe Ser Val Cys  
                   20                  25                  30  
 Thr Leu

<210> 451  
 <211> 89  
 <212> PRT  
 <213> Homo sapiens

<400> 451  
 Met Arg Gln Arg Gln Ala Ala Cys Gln Pro Pro Pro Ser Arg Asn Gly  
   1                  5                  10                  15  
 Leu Ala Gln Glu Cys Pro Pro His Ile Pro Ser Ser Phe Phe Leu Val  
                   20                  25                  30  
 Lys Leu Leu Phe Ile Pro Trp Leu Ala Ser Leu Leu Ser Ser Pro Leu  
                   35                  40                  45  
 Asn Leu Leu Leu Leu Val Ser Ile Ser Trp Asp Leu Gly Leu Lys Leu  
                   50                  55                  60

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Asn Leu Gln Gln Cys Arg Gln His Gln Val Leu Gln Glu Lys Asn Thr  
 65 70 75 80

Lys Lys Phe Asn Lys Lys Lys Lys Lys  
 85

<210> 452

<211> 350

<212> PRT

<213> Homo sapiens

<400> 452

Met Asp Phe Ile Thr Ser Thr Ala Ile Leu Pro Leu Leu Phe Gly Cys  
 1 5 10 15

Leu Gly Val Phe Gly Leu Phe Arg Leu Leu Gln Trp Val Arg Gly Lys  
 20 25 30

Ala Tyr Leu Arg Asn Ala Val Val Val Ile Thr Gly Ala Thr Ser Gly  
 35 40 45

Leu Gly Lys Glu Cys Ala Lys Val Phe Tyr Ala Ala Gly Ala Lys Leu  
 50 55 60

Val Leu Cys Gly Arg Asn Gly Gly Ala Leu Glu Glu Leu Ile Arg Glu  
 65 70 75 80

Leu Thr Ala Ser His Ala Thr Lys Val Gln Thr His Lys Pro Tyr Leu  
 85 90 95

Val Thr Phe Asp Leu Thr Asp Ser Gly Ala Ile Val Ala Ala Ala  
 100 105 110

Glu Ile Leu Gln Cys Phe Gly Tyr Val Asp Ile Leu Val Asn Asn Ala  
 115 120 125

Gly Ile Ser Tyr Arg Gly Thr Ile Met Asp Thr Thr Val Asp Val Asp  
 130 135 140

Lys Arg Val Met Glu Thr Asn Tyr Phe Gly Pro Val Ala Leu Thr Lys  
 145 150 155 160

Ala Leu Leu Pro Ser Met Ile Lys Arg Arg Gln Gly His Ile Val Ala  
 165 170 175

Ile Ser Ser Ile Gln Gly Lys Met Ser Ile Pro Phe Arg Ser Ala Tyr  
 180 185 190

Ala Ala Ser Lys His Ala Thr Gln Ala Phe Phe Asp Cys Leu Arg Ala  
 195 200 205

Glu Met Glu Gln Tyr Glu Ile Glu Val Thr Val Ile Ser Pro Gly Tyr  
 210 215 220

Ile His Thr Asn Leu Ser Val Asn Ala Ile Thr Ala Asp Gly Ser Arg  
 225 230 235 240

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<400> 454  
Met Ala Ser Ala Glu Leu Asp Tyr Thr Ile Glu Ile Pro Asp Gln Pro

1	5	10	15
Cys Trp Ser Gln Lys Asn Ser Pro Ser Pro Gly Gly Lys Glu Ala Glu	20	25	30
Thr Arg Gln Pro Val Val Ile Leu Leu Gly Trp Gly Gly Cys Lys Asp	35	40	45
Lys Asn Leu Ala Lys Tyr Ser Ala Ile Tyr His Lys Arg Gly Cys Ile	50	55	60
Val Ile Arg Tyr Thr Ala Pro Trp His Met Val Phe Phe Ser Glu Ser	65	70	75
Leu Gly Ile Pro Ser Leu Arg Val Leu Ala Gln Lys Leu Leu Glu Leu	85	90	95
Leu Phe Asp Tyr Glu Ile Glu Lys Glu Pro Leu Leu Phe His Val Phe	100	105	110
Ser Asn Gly Gly Val Met Leu Tyr Arg Tyr Val Leu Glu Leu Leu Gln	115	120	125
Thr Arg Arg Phe Cys Arg Leu Arg Val Val Gly Thr Ile Phe Asp Ser	130	135	140
Ala Pro Gly Asp Ser Asn Leu Val Gly Ala Leu Arg Ala Leu Ala Ala	145	150	155
Ile Leu Glu Arg Arg Ala Ala Met Leu Arg Leu Leu Leu Val Ala	165	170	175
Phe Ala Leu Val Val Val Leu Phe His Val Leu Leu Ala Pro Ile Thr	180	185	190
Ala Xaa Phe His Thr His Phe Tyr Asp Arg Leu Gln Asp Ala Gly Ser	195	200	205
Arg Trp Pro Glu Leu Tyr Leu Tyr Ser Arg Ala Asp Glu Val Val Leu	210	215	220
Ala Arg Asp Ile Glu Arg Met Val Glu Ala Arg Leu Ala Arg Arg Val	225	230	235
Leu Ala Arg Ser Val Asp Phe Val Ser Ser Ala His Val Ser His Leu	245	250	255
Arg Asp Tyr Pro Thr Tyr Tyr Thr Ser Leu Cys Val Asp Phe Met Arg	260	265	270
Asn Cys Val Arg Cys Xaa	275		

&lt;210&gt; 455

&lt;211&gt; 199

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens



<220>  
 <221> SITE  
 <222> (199)  
 <223> Xaa equals stop translation  
  
 <400> 455  
 Met Ser Phe Ile Phe Asp Trp Ile Tyr Ser Gly Phe Ser Ser Val Leu  
           1                  5                  10                  15  
  
 Gln Phe Leu Gly Leu Tyr Lys Lys Thr Gly Lys Leu Val Phe Leu Gly  
                   20                  25                  30  
  
 Leu Asp Asn Ala Gly Lys Thr Thr Leu Leu His Met Leu Lys Asp Asp  
           33                  40                  45  
  
 Arg Leu Gly Gln His Val Pro Thr Leu His Pro Thr Ser Glu Glu Leu  
           50                  55                  60  
  
 Thr Ile Ala Gly Met Thr Phe Thr Thr Phe Asp Leu Gly Gly His Val  
           65                  70                  75                  80  
  
 Gln Ala Arg Arg Val Trp Lys Asn Tyr Leu Pro Ala Ile Asn Gly Ile  
                   85                  90                  95  
  
 Val Phe Leu Val Asp Cys Ala Asp His Glu Arg Leu Leu Glu Ser Lys  
                   100                  105                  110  
  
 Glu Glu Leu Asp Ser Leu Met Thr Asp Glu Thr Ile Ala Asn Val Pro  
           115                  120                  125  
  
 Ile Leu Ile Leu Gly Asn Lys Ile Asp Arg Pro Glu Ala Ile Ser Glu  
           130                  135                  140  
  
 Glu Arg Leu Arg Glu Met Phe Gly Leu Tyr Gly Gln Thr Thr Gly Lys  
           145                  150                  155                  160  
  
 Gly Ser Ile Ser Leu Lys Glu Leu Asn Ala Arg Pro Leu Glu Val Phe  
                   165                  170                  175  
  
 Met Cys Ser Val Leu Lys Arg Gln Gly Tyr Gly Glu Gly Phe Arg Trp  
           180                  185                  190  
  
 Met Ala Gln Tyr Ile Asp Xaa  
           195  
  
  
 <210> 456  
 <211> 258  
 <212> PRT  
 <213> Homo sapiens  
  
 <220>  
 <221> SITE  
 <222> (170)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>

<221> SITE  
 <222> (219)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (258)  
 <223> Xaa equals stop translation

<400> 456  
 Met Thr Leu Ser Arg Phe Ala Tyr Asn Gly Lys Arg Cys Pro Ser Ser  
 1 5 10 15  
 Tyr Asn Ile Leu Asp Asn Ser Lys Ile Ile Ser Glu Glu Cys Arg Lys  
 20 25 30  
 Glu Leu Thr Ala Leu Leu His His Tyr Tyr Pro Ile Glu Ile Asp Pro  
 35 40 45  
 His Arg Thr Val Lys Glu Lys Leu Pro His Met Val Glu Trp Trp Thr  
 50 55 60  
 Lys Ala His Asn Leu Leu Cys Gln Gln Lys Ile Gln Lys Phe Gln Ile  
 65 70 75 80  
 Ala Gln Val Val Arg Glu Ser Asn Ala Met Leu Arg Glu Gly Tyr Lys  
 85 90 95  
 Thr Phe Phe Asn Thr Leu Tyr His Asn Asn Ile Pro Leu Phe Ile Phe  
 100 105 110  
 Ser Ala Gly Ile Gly Asp Ile Leu Glu Glu Ile Ile Arg Gln Met Lys  
 115 120 125  
 Val Phe His Pro Asn Ile His Ile Val Ser Asn Tyr Met Asp Phe Asn  
 130 135 140  
 Glu Asp Gly Phe Leu Gln Gly Phe Lys Gly Gln Leu Ile His Thr Tyr  
 145 150 155 160  
 Asn Lys Asn Ser Ser Val Cys Glu Asn Xaa Gly Tyr Phe Gln Gln Leu  
 165 170 175  
 Glu Gly Lys Thr Asn Val Ile Leu Leu Gly Asp Ser Ile Gly Asp Leu  
 180 185 190  
 Thr Met Ala Asp Gly Val Pro Gly Val Gln Asn Ile Leu Lys Ile Gly  
 195 200 205  
 Phe Leu Asn Asp Lys Val Glu Glu Arg Arg Xaa Arg Tyr Met Asp Ser  
 210 215 220  
 Tyr Asp Ile Val Leu Glu Lys Asp Glu Thr Leu Asp Val Val Asn Gly  
 225 230 235 240  
 Leu Leu Gln His Ile Leu Cys Gln Gly Val Gln Leu Glu Met Gln Gly  
 245 250 255

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<210> 457
<211> 87
<212> PRT
<213> Homo sapiens
```

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<220>
<221> SITE
<222> (82)
<223> Xaa equals any of the naturally occurring L-amino acids
```

```
<400> 457
Met Ser His Val Leu Leu Cys Pro Ser Leu Ser Cys Ser Asn Leu Leu
  1             5             10             15
```

Pro Pro Ser His Ser Leu Gly Thr Met Gly Ser Leu Ser Pro His Leu  
20 25 30

Cys Gly His Thr Met Cys Pro Val Asn Pro Glu Leu Pro Leu Ser Ser  
35 40 45

Arg Leu Thr Thr Asp Gln Pro Gln Pro Asp Ala Cys Ser Pro Thr Leu  
50 55 60

Leu Thr Leu Pro Leu Pro Ser Ser Phe Leu Pro His Ser Lys Pro Thr  
65 70 75 80

Phe Xaa His Pro Cys Ser Pro  
85

```
<210> 458
<211> 315
<212> PRT
<213> Homo sapiens
```

```
<220>
<221> SITE
<222> (28)
<223> Xaa equals any of the naturally occurring L-amino acids
```

```
<220>
<221> SITE
<222> (315)
<223> Xaa equals stop translation
```

<400> 458  
Met Phe Ser Ile Asn Pro Leu Glu Asn Leu Lys Val Tyr Ile Ser Ser  
1 5 10 15

Arg Pro Pro Leu Val Val Phe Met Ile Ser Val Xaa Pro Met Ala Ile  
20 25 30

Ala Phe Leu Thr Leu Gly Tyr Phe Phe Lys Ile Lys Glu Ile Lys Ser  
35 40 45

Pro Glu Met Ala Glu Asp Trp Asn Thr Phe Leu Leu Arg Phe Asn Asp  
 50 55 60  
 Leu Asp Leu Cys Val Ser Glu Asn Glu Thr Leu Lys His Leu Thr Asn  
 65 70 75 80  
 Asp Thr Thr Thr Pro Glu Ser Thr Met Thr Ser Gly Gln Ala Arg Ala  
 85 90 95  
 Ser Thr Gln Ser Pro Gln Ala Leu Glu Asp Ser Gly Pro Val Asn Ile  
 100 105 110  
 Ser Val Ser Ile Thr Leu Thr Leu Asp Pro Leu Lys Pro Phe Gly Gly  
 115 120 125  
 Tyr Ser Arg Asn Val Thr His Leu Tyr Ser Thr Ile Leu Gly His Gln  
 130 135 140  
 Ile Gly Leu Ser Gly Arg Glu Ala His Glu Glu Ile Asn Ile Thr Phe  
 145 150 155 160  
 Thr Leu Pro Thr Ala Trp Ser Ser Asp Asp Cys Ala Leu His Gly His  
 165 170 175  
 Cys Glu Gln Val Val Phe Thr Ala Cys Met Thr Leu Thr Ala Ser Pro  
 180 185 190  
 Gly Val Phe Pro Val Thr Val Gln Pro Pro His Cys Val Pro Asp Thr  
 195 200 205  
 Tyr Ser Asn Ala Thr Leu Trp Tyr Lys Ile Phe Thr Thr Ala Arg Asp  
 210 215 220  
 Ala Asn Thr Lys Tyr Ala Gln Asp Tyr Asn Pro Phe Trp Cys Tyr Lys  
 225 230 235 240  
 Gly Ala Ile Gly Lys Val Tyr His Ala Leu Asn Pro Lys Leu Thr Val  
 245 250 255  
 Ile Val Pro Asp Asp Asp Arg Ser Leu Ile Asn Leu His Leu Met His  
 260 265 270  
 Thr Ser Tyr Phe Leu Phe Val Met Val Ile Thr Met Phe Cys Tyr Ala  
 275 280 285  
 Val Ile Lys Gly Arg Pro Ser Lys Leu Arg Gln Ser Asn Pro Glu Phe  
 290 295 300  
 Cys Pro Glu Lys Val Ala Leu Ala Glu Ala Xaa  
 305 310 315

<210> 459  
 <211> 52  
 <212> PRT  
 <213> Homo sapiens

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<400> 459  
 Met Pro Gly Leu Ser Leu Ala Leu Leu Pro Phe Gly Pro Gly Cys Thr  
 1 5 10 15  
 Glu Ala Leu His Ala Gly Cys Phe Pro Ala Phe Ala Ser Ala Thr Arg  
 20 25 30  
 Val Asn Gly Glu Ala Ala Leu Ser Pro Gly Leu Cys Asp Pro Ile Ser  
 35 40 45  
 Val Pro Tyr Val  
 50

<210> 460  
 <211> 383  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (383)  
 <223> Xaa equals stop translation

<400> 460  
 Met Ala Val Gly Gln Ile Met Thr Phe Gly Ser Pro Val Ile Gly Cys  
 1 5 10 15  
 Gly Phe Ile Ser Gly Trp Asn Leu Val Ser Met Cys Val Glu Tyr Val  
 20 25 30  
 Leu Leu Trp Lys Val Tyr Gln Lys Thr Pro Ala Leu Ala Val Lys Ala  
 35 40 45  
 Gly Leu Lys Glu Glu Thr Glu Leu Lys Gln Leu Asn Leu His Lys  
 50 55 60  
 Asp Thr Glu Pro Lys Pro Leu Glu Gly Thr His Leu Met Gly Val Lys  
 65 70 75 80  
 Asp Ser Asn Ile His Glu Leu Glu His Glu Gln Glu Pro Thr Cys Ala  
 85 90 95  
 Ser Gln Met Ala Glu Pro Phe Arg Thr Phe Arg Asp Gly Trp Val Ser  
 100 105 110  
 Tyr Tyr Asn Gln Pro Val Phe Leu Ala Gly Met Gly Leu Ala Phe Leu  
 115 120 125  
 Tyr Met Thr Val Leu Gly Phe Asp Cys Ile Thr Thr Gly Tyr Ala Tyr  
 130 135 140  
 Thr Gln Gly Leu Ser Gly Phe His Pro Gln Tyr Phe Asp Gly Ser Ile  
 145 150 155 160  
 Ser Tyr Asn Trp Asn Asn Gly Asn Cys Ser Phe Tyr Leu Ala Thr Ser  
 165 170 175

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Lys Met Trp Phe Gly Ser Ala Gly Leu Ile Ser Gly Leu Ala Gln Leu  
 180 185 190  
 Ser Cys Leu Ile Leu Cys Val Ile Ser Val Phe Met Pro Gly Ser Pro  
 195 200 205  
 Leu Asp Leu Ser Val Ser Pro Phe Glu Asp Ile Arg Ser Arg Phe Ile  
 210 215 220  
 Gln Gly Glu Ser Ile Thr Pro Thr Lys Ile Pro Glu Ile Thr Thr Glu  
 225 230 235 240  
 Ile Tyr Met Ser Asn Gly Ser Asn Ser Ala Asn Ile Val Pro Glu Thr  
 245 250 255  
 Ser Pro Glu Ser Val Pro Ile Ile Ser Val Ser Leu Leu Phe Ala Gly  
 260 265 270  
 Val Ile Ala Ala Arg Ile Gly Leu Trp Ser Phe Asp Leu Thr Val Thr  
 275 280 285  
 Gln Leu Leu Gln Glu Asn Val Ile Glu Ser Glu Arg Gly Ile Ile Asn  
 290 295 300  
 Gly Val Gln Asn Ser Met Asn Tyr Leu Leu Asp Leu Leu His Phe Ile  
 305 310 315 320  
 Met Val Ile Leu Ala Pro Asn Pro Glu Ala Phe Gly Leu Leu Val Leu  
 325 330 335  
 Ile Ser Val Ser Phe Val Ala Met Gly His Ile Met Tyr Phe Arg Phe  
 340 345 350  
 Ala Gln Asn Thr Leu Gly Asn Lys Leu Phe Ala Cys Gly Pro Asp Ala  
 355 360 365  
 Lys Glu Val Arg Lys Glu Asn Gln Ala Asn Thr Ser Val Val Xaa  
 370 375 380  
  
 <210> 461  
 <211> 186  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 461  
 Met Arg Ser Ile Gly Asn Lys Asn Thr Ile Leu Leu Gly Leu Gly Phe  
 1 5 10 15  
 Gln Ile Leu Gln Leu Ala Trp Tyr Gly Phe Gly Ser Glu Pro Trp Met  
 20 25 30  
 Met Trp Ala Ala Gly Ala Val Ala Ala Met Ser Ser Ile Thr Phe Pro  
 35 40 45  
 Ala Val Ser Ala Leu Val Ser Arg Thr Ala Asp Ala Asp Gln Gln Gly  
 50 55 60

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Val Val Gln Gly Met Ile Thr Gly Ile Arg Gly Leu Cys Asn Gly Leu  
65 70 75 80

Gly Pro Ala Leu Tyr Gly Phe Ile Phe Tyr Ile Phe His Val Glu Leu  
85 90 95

Lys Glu Leu Pro Ile Thr Gly Thr Asp Leu Gly Thr Asn Thr Ser Pro  
100 105 110

Gln His His Phe Glu Gln Asn Ser Ile Ile Pro Gly Pro Pro Phe Leu  
115 120 125

Phe Gly Ala Cys Ser Val Leu Leu Ala Leu Leu Val Ala Leu Phe Ile  
130 135 140

Pro Glu His Thr Asn Leu Ser Leu Arg Ser Ser Ser Trp Arg Lys His  
145 150 155 160

Cys Gly Ser His Ser His Pro His Asn Thr Gln Ala Pro Gly Glu Ala  
165 170 175

Lys Glu Pro Leu Leu Gln Asp Thr Asn Val  
180 185

<210> 462

<211> 163

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (163)

<223> Xaa equals stop translation

<400> 462

Met Leu Gln Thr Ser Asn Tyr Ser Leu Val Leu Ser Leu Gln Phe Leu  
1 5 10 15

Leu Leu Ser Tyr Asp Leu Phe Val Asn Ser Phe Ser Glu Leu Leu Gln  
20 25 30

Lys Thr Pro Val Ile Gln Leu Val Leu Phe Ile Ile Gln Asp Ile Ala  
35 40 45

Val Leu Phe Asn Ile Ile Ile Phe Leu Met Phe Phe Asn Thr Phe  
50 55 60

Val Phe Gln Ala Gly Leu Val Asn Leu Leu Phe His Lys Phe Lys Gly  
65 70 75 80

Thr Ile Ile Leu Thr Ala Val Tyr Phe Ala Leu Ser Ile Ser Leu His  
85 90 95

Val Trp Val Met Asn Leu Arg Trp Lys Asn Ser Asn Ser Phe Ile Trp  
100 105 110

Thr Asp Gly Leu Gln Met Leu Phe Val Phe Gln Arg Leu Ala Ala Val

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115 120 125  
 Leu Tyr Cys Tyr Phe Tyr Lys Arg Thr Ala Val Arg Leu Gly Asp Pro  
 130 135 140  
 His Phe Tyr Gln Asp Ser Leu Trp Leu Arg Lys Glu Phe Met Gln Val  
 145 150 155 160  
 Arg Arg Xaa

<210> 463  
 <211> 46  
 <212> PRT  
 <213> Homo sapiens

<400> 463  
 Met Arg Ile Gln Val Phe Ile Leu Leu Leu Gly Ala Gly Gly Thr Ser  
 1 5 10 15  
 Gln Phe Thr Lys Pro Pro Ser Leu Pro Leu Glu Pro Glu Pro Ala Val  
 20 25 30  
 Glu Ser Ser Pro Thr Glu Thr Ser Glu Gln Ile Arg Glu Lys  
 35 40 45

<210> 464  
 <211> 105  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (105)  
 <223> Xaa equals stop translation

<400> 464  
 Met Ser Tyr Leu Ala Phe Leu Tyr Met Thr Phe Asp Phe Cys Cys Leu  
 1 5 10 15  
 Tyr Phe Ser Thr Val Tyr Ala Pro Ser Phe Lys Tyr Ile Cys Val His  
 20 25 30  
 Thr Asp Thr His Ile Cys Val Cys Val Cys Ile Tyr Leu Ser Ser Val  
 35 40 45  
 Val Ser Lys Ser Ser Ala Glu Ala Asp Gly Val Leu Gln Pro Arg Arg  
 50 55 60  
 His Pro Ala Ser Leu Leu Ile Val Phe Ala Thr Ser Ile Ser Glu Ser  
 65 70 75 80  
 Ser Leu Leu Ile Phe Ser Phe Gln Lys Thr Glu Ala Lys Leu Ile Val  
 85 90 95  
 Phe Ala Val Ser Leu Ala Ala Lys Xaa

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100

105

<210> 465  
 <211> 70  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (70)  
 <223> Xaa equals stop translation

<400> 465  
 Met Leu Pro Pro Phe Ser Leu Val Tyr Thr His Phe Leu Val Ala Ser  
 1 5 10 15

Leu Leu Pro Val Ile Leu Ala Val Phe Pro Asp Ser Ala Gln Ile Val  
 20 25 30

Pro Leu Leu Lys Pro Ile Pro Arg Pro Gln Pro Glu Val Ile Phe Pro  
 35 40 45

Ser Ser Glu Leu Leu Glu Gln Leu Ser Val Gln Phe Val Trp Gln  
 50 55 60

Ala His Thr Val Ala Xaa  
 65 70

<210> 466  
 <211> 155  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (155)  
 <223> Xaa equals stop translation

<400> 466  
 Met Ala Leu Leu Leu Ser Val Leu Arg Val Leu Leu Gly Gly Phe Phe  
 1 5 10 15

Ala Leu Val Gly Leu Ala Lys Leu Ser Glu Glu Ile Ser Ala Pro Val  
 20 25 30

Ser Glu Arg Met Asn Ala Leu Phe Val Gln Phe Ala Glu Val Phe Pro  
 35 40 45

Leu Lys Val Phe Gly Tyr Gln Pro Asp Pro Leu Asn Tyr Gln Ile Ala  
 50 55 60

Val Gly Phe Leu Glu Leu Leu Ala Gly Leu Leu Val Met Gly Pro  
 65 70 75 80

Pro Met Leu Gln Glu Ile Ser Asn Leu Phe Leu Ile Leu Leu Met Met  
 85 90 95

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Val Asp Gly Val Ser Tyr Gln Lys Ala Met Phe Ile Phe Leu Ser Asn  
195 200 205

Ala Gly Ala Glu Arg Ile Thr Asp Val Ala Leu Asp Phe Trp Arg Ser  
210 215 220

Gly Lys Gln Arg Glu Asp Ile Lys Leu Lys Asp Ile Glu His Ala Leu  
225 230 235 240

Ser Val Ser Val Phe Asn Asn Lys Asn Ser Gly Phe Trp His Ser Ser  
245 250 255

Leu Ile Asp Arg Asn Leu Ile Asp Tyr Phe Val Pro Phe Leu Pro Leu  
260 265 270

Glu Tyr Lys His Leu Lys Met Cys Ile Arg Val Glu Met Gln Ser Arg  
275 280 285

Gly Tyr Glu Ile Asp Glu Asp Ile Val Ser Arg Val Ala Glu Glu Met  
290 295 300

Thr Phe Phe Pro Lys Glu Glu Arg Val Phe Ser Asp Lys Gly Cys Lys  
305 310 315 320

Thr Val Phe Thr Lys Leu Asp Tyr Tyr Tyr Asp Asp  
325 330

<210> 468

<211> 48

<212> PRT

<213> Homo sapiens

<400> 468

Met Val Val Phe Ser Phe Phe Lys Pro Val Leu Val Ile Arg Met Tyr  
1 5 10 15

Leu Thr Val Leu Trp Asn Asn Cys Asp Tyr Ser Lys Val Ile Val Phe  
20 25 30

Lys Asn Val Ile Tyr Thr Cys Tyr Ile His Phe Ser Pro Ser Lys Tyr  
35 40 45

<210> 469

<211> 548

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (219)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (220)

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<400> 469

Gly Pro Cys Ala Val Pro Glu Gln Phe Arg Asp Met Pro Tyr Gln Pro  
20 25 30

Phe Ser Lys Gly Asp Arg Leu Gly Lys Val Ala Asp Trp Thr Gly Ala  
35 40 45

Thr Tyr Gln Asp Lys Arg Tyr Thr Asn Lys Tyr Ser Ser Gln Phe Gly  
50 55 60

Gly Gly Ser Gln Tyr Ala Tyr Phe His Glu Glu Asp Glu Ser Ser Phe  
65 70 75 80

Gln Leu Val Asp Thr Ala Arg Thr Gln Lys Thr Ala Tyr Gln Arg Asn  
85 90 95

Arg Met Arg Phe Ala Gln Arg Asn Leu Arg Arg Asp Lys Asp Arg Arg  
100 105 110

Asn Met Leu Gln Phe Asn Leu Gln Ile Leu Pro Lys Ser Ala Lys Gln  
115 120 125

Lys Glu Arg Glu Arg Ile Arg Leu Gln Lys Lys Phe Gln Lys Gln Phe  
130 135 140

Gly Val Arg Gln Lys Trp Asp Gln Lys Ser Gln Lys Pro Arg Asp Ser  
145 150 155 160

Ser Val Glu Val Arg Ser Asp Trp Glu Val Lys Glu Glu Met Asp Phe  
165 170 175

Pro Gln Leu Met Lys Met Arg Tyr Leu Glu Val Ser Glu Pro Gln Asp  
180 185 190

Ile Glu Cys Cys Gly Ala Leu Glu Tyr Tyr Asp Lys Ala Phe Asp Arg  
195 200 205

Ile Thr Thr Arg Ser Glu Lys Pro Leu Arg Xaa Xaa Lys Arg Ile Phe  
210 215 220

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His Thr Val Thr Thr Thr Asp Asp Pro Val Ile Arg Lys Leu Ala Lys
225                230                235                240
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Thr Gln Gly Asn Val Phe Ala Thr Asp Ala Ile Leu Ala Thr Leu Met  
245 250 255

Ser Cys Thr Arg Ser Val Tyr Ser Trp Asp Ile Val Val Gln Arg Val  
260 265 270

Gly Ser Lys Leu Phe Phe Asp Lys Arg Asp Asn Ser Asp Phe Asp Leu  
275 280 285

Leu Thr Val Ser Glu Thr Ala Asn Glu Pro Pro Gln Asp Glu Gly Asn

290                      295                      300  
 Ser Phe Asn Ser Pro Arg Asn Leu Ala Met Glu Ala Thr Tyr Ile Asn  
 305                      310                      315                      320  
 His Asn Phe Ser Gln Gln Cys Leu Arg Met Gly Lys Glu Arg Tyr Asn  
                     325                      330                      335  
 Phe Pro Asn Pro Asn Pro Phe Val Glu Asp Asp Met Asp Lys Asn Glu  
                     340                      345                      350  
 Ile Ala Ser Val Ala Tyr Arg Tyr Arg Ser Gly Lys Leu Gly Asp Asp  
                     355                      360                      365  
 Ile Asp Leu Ile Val Arg Cys Glu His Asp Gly Val Met Thr Gly Ala  
                     370                      375                      380  
 Asn Gly Glu Val Ser Phe Ile Asn Ile Lys Thr Leu Asn Glu Trp Asp  
 385                      390                      395                      400  
 Ser Arg His Cys Asn Gly Val Asp Trp Arg Gln Lys Leu Asp Ser Gln  
                     405                      410                      415  
 Arg Gly Ala Val Ile Ala Thr Glu Leu Lys Asn Asn Ser Tyr Lys Leu  
                     420                      425                      430  
 Ala Arg Trp Thr Cys Cys Ala Leu Leu Ala Gly Ser Glu Tyr Leu Lys  
                     435                      440                      445  
 Leu Gly Tyr Val Ser Arg Tyr His Val Lys Asp Ser Ser Arg His Val  
                     450                      455                      460  
 Ile Leu Gly Thr Gln Gln Phe Lys Pro Asn Glu Phe Ala Ser Gln Ile  
 465                      470                      475                      480  
 Asn Leu Ser Val Glu Asn Ala Trp Gly Ile Leu Arg Cys Val Ile Asp  
                     485                      490                      495  
 Ile Cys Met Lys Leu Glu Glu Gly Lys Tyr Leu Ile Leu Lys Asp Pro  
                     500                      505                      510  
 Asn Lys Gln Val Ile Arg Val Tyr Ser Leu Pro Asp Gly Thr Phe Ser  
                     515                      520                      525  
 Ser Asp Glu Asp Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu  
                     530                      535                      540  
 Glu Glu Glu Thr  
 545

<210> 470  
 <211> 285  
 <212> PRT  
 <213> Homo sapiens  
  
 <220>  
 <221> SITE

000001.063001

&lt;222&gt; (191)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (216)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (217)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 470

Met	Lys	Leu	His	Pro	Pro	Pro	Ser	Pro	Val	Thr	Gln	Asp	His	Arg
1				5				10					15	

Ser	Lys	Ser	Ser	His	Ser	Asn	Trp	Met	Pro	Arg	Met	Gly	Ala	Cys	Ser
				20				25					30		

Met	Ser	Arg	Thr	Ser	Ser	Ser	Gly	Pro	Pro	Ser	Leu	Cys	Lys	Ser	Thr
			35				40					45			

Ser	Gly	Arg	Ser	Cys	Thr	Arg	Pro	His	Cys	Trp	Pro	Ser	Leu	Pro	Ala
	50					55					60				

Trp	Val	Ser	Val	Phe	Thr	Arg	Thr	Asn	Thr	Gly	Ser	Trp	Cys	Tyr	Pro
65				70						75					80

Ala	Trp	Gly	Gly	Ala	Phe	Ser	Arg	Pro	Trp	Met	Ser	Ala	Gln	Ser	Met
				85				90						95	

Cys	Cys	Ala	Glu	Arg	Ser	Val	Leu	Gln	Val	Ala	Cys	Arg	Leu	Leu	Asp
		100						105					110		

Ala	Leu	Glu	Phe	Leu	His	Glu	Asn	Glu	Tyr	Val	His	Gly	Asn	Val	Thr
	115						120					125			

Ala	Glu	Asn	Ile	Phe	Val	Asp	Pro	Glu	Asp	Gln	Ser	Gln	Val	Thr	Leu
	130					135						140			

Ala	Gly	Tyr	Gly	Phe	Ala	Phe	Arg	Tyr	Cys	Pro	Ser	Gly	Lys	His	Val
145				150						155				160	

Ala	Tyr	Val	Glu	Gly	Ser	Arg	Ser	Pro	His	Glu	Gly	Asp	Leu	Glu	Phe
			165						170				175		

Ile	Ser	Met	Asp	Leu	His	Lys	Gly	Cys	Gly	Pro	Ser	Arg	Arg	Xaa	Asp
		180						185					190		

Leu	Gln	Ser	Leu	Gly	Tyr	Cys	Met	Leu	Lys	Trp	Leu	Tyr	Gly	Phe	Leu
	195						200					205			

Pro	Trp	Thr	Asn	Cys	Leu	Pro	Xaa	Xaa	Glu	Asp	Ile	Met	Lys	Gln	Lys
	210				215						220				

Gln	Lys	Phe	Val	Asp	Lys	Pro	Gly	Pro	Phe	Val	Gly	Pro	Cys	Gly	His
225					230					235				240	

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<211> 96  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (96)  
 <223> Xaa equals stop translation

<400> 473  
 Met Glu Leu Val Leu Val Phe Leu Cys Ser Leu Leu Ala Pro Met Val  
           1                  5                  10                  15  
 Leu Ala Ser Ala Ala Glu Lys Glu Lys Glu Met Asp Pro Phe His Tyr  
                   20                  25                  30  
 Asp Tyr Gln Thr Leu Arg Ile Gly Gly Leu Val Phe Ala Val Val Leu  
                   35                  40                  45  
 Phe Ser Val Gly Ile Leu Leu Ile Leu Ser Arg Arg Cys Lys Cys Ser  
                   50                  55                  60  
 Phe Asn Gln Lys Pro Arg Ala Pro Gly Asp Glu Glu Ala Gln Val Glu  
                   65                  70                  75                  80  
 Asn Leu Ile Thr Ala Asn Ala Thr Glu Pro Gln Lys Ala Glu Asn Xaa  
                   85                  90                  95

<210> 474  
 <211> 399  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (399)  
 <223> Xaa equals stop translation

<400> 474  
 Met Ala Ser Gly Ala Asp Ser Lys Gly Asp Asp Leu Ser Thr Ala Ile  
           1                  5                  10                  15  
 Leu Lys Gln Lys Asn Arg Pro Asn Arg Leu Ile Val Asp Glu Ala Ile  
                   20                  25                  30  
 Asn Glu Asp Asn Ser Val Val Ser Leu Ser Gln Pro Lys Met Asp Glu  
                   35                  40                  45  
 Leu Gln Leu Phe Arg Gly Asp Thr Val Leu Leu Lys Gly Lys Lys Arg  
                   50                  55                  60  
 Arg Glu Ala Val Cys Ile Val Leu Ser Asp Asp Thr Cys Ser Asp Glu  
                   65                  70                  75                  80

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Lys Ile Arg Met Asn Arg Val Val Arg Asn Asn Leu Arg Val Arg Leu  
 85 90 95  
 Gly Asp Val Ile Ser Ile Gln Pro Cys Pro Asp Val Lys Tyr Gly Lys  
 100 105 110  
 Arg Ile His Val Leu Pro Ile Asp Asp Thr Val Glu Gly Ile Thr Gly  
 115 120 125  
 Asn Leu Phe Glu Val Tyr Leu Lys Pro Tyr Phe Leu Glu Ala Tyr Arg  
 130 135 140  
 Pro Ile Arg Lys Gly Asp Ile Phe Leu Val Arg Gly Gly Met Arg Ala  
 145 150 155 160  
 Val Glu Phe Lys Val Val Glu Thr Asp Pro Ser Pro Tyr Cys Ile Val  
 165 170 175  
 Ala Pro Asp Thr Val Ile His Cys Glu Gly Glu Pro Ile Lys Arg Glu  
 180 185 190  
 Asp Glu Glu Glu Ser Leu Asn Glu Val Gly Tyr Asp Asp Ile Gly Gly  
 195 200 205  
 Cys Arg Lys Gln Leu Ala Gln Ile Lys Glu Met Val Glu Leu Pro Leu  
 210 215 220  
 Arg His Pro Ala Leu Phe Lys Ala Ile Gly Val Lys Pro Pro Arg Gly  
 225 230 235 240  
 Ile Leu Leu Tyr Gly Pro Pro Gly Thr Gly Lys Thr Leu Ile Ala Arg  
 245 250 255  
 Ala Val Ala Asn Glu Thr Gly Ala Phe Phe Phe Leu Ile Asn Gly Pro  
 260 265 270  
 Glu Ile Met Ser Lys Leu Ala Gly Glu Ser Glu Ser Asn Leu Arg Lys  
 275 280 285  
 Ala Phe Glu Glu Ala Glu Lys Asn Ala Pro Ala Ile Ile Phe Ile Asp  
 290 295 300  
 Glu Leu Asp Ala Ile Ala Pro Lys Arg Glu Lys Thr His Gly Glu Val  
 305 310 315 320  
 Glu Arg Arg Ile Val Ser Gln Leu Leu Thr Leu Met Asp Gly Leu Lys  
 325 330 335  
 Gln Arg Ala His Val Ile Val Met Ala Ala Thr Asn Arg Pro Asn Ser  
 340 345 350  
 Ile Asp Pro Ala Leu Arg Arg Phe Gly Arg Phe Asp Arg Glu Val Asp  
 355 360 365  
 Ile Gly Ile Pro Asp Ala Thr Gly Arg Leu Glu Ile Leu Gln Ile His  
 370 375 380  
 Thr Lys Asn Met Lys Leu Ala Asp Asp Val Asp Leu Glu Gln Xaa

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385

390

395

<210> 475  
 <211> 45  
 <212> PRT  
 <213> Homo sapiens

<400> 475  
 Met Tyr Met Lys Thr Asn Leu Ser Leu Val Ser Leu Lys Tyr Leu Phe  
           1                  5                  10                  15  
 Phe Leu Thr Cys Glu Met Phe Glu Arg Arg Phe Ser Ile His Phe Ser  
                   20                  25                  30  
 Ala Ala Trp Arg Lys Leu Gly Asn Asp Phe Phe Gln Leu  
           35                  40                  45

<210> 476  
 <211> 273  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (181)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (202)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (203)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (204)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (211)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (212)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (214)  
 <223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals stop translation
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Met Ala Ala Pro Lys Gly Ser Leu Trp Val Arg Thr Gln Leu Gly Leu  
1 5 10 15

Pro Pro Leu Leu Leu Leu Thr Met Ala Leu Ala Gly Gly Ser Gly Thr  
20 25 30

Ala Ser Ala Glu Ala Phe Asp Ser Val Leu Gly Asp Thr Ala Ser Cys  
35 40 45

His Arg Ala Cys Gln Leu Thr Tyr Pro Leu His Thr Tyr Pro Lys Glu  
50 55 60

Glu Glu Leu Tyr Ala Cys Gln Arg Gly Cys Arg Leu Phe Ser Ile Cys  
65 70 75 80

Gln Phe Val Asp Asp Gly Ile Asp Leu Asn Arg Thr Lys Leu Glu Cys  
85 90 95

Glu Ser Ala Cys Thr Glu Ala Tyr Ser Gln Ser Asp Glu Gln Tyr Ala  
100 105 110

Cys His Leu Gly Cys Gln Asn Gln Leu Pro Phe Ala Glu Leu Arg Gln  
115 120 125

Glu Gln Leu Met Ser Leu Met Pro Lys, Met His Leu Leu Phe Pro Leu  
130 135 140

Thr Leu Val Arg Ser Phe Trp Ser Asp Met Met Asp Ser Ala Gln Ser  
145 150 155 160

Phe Ile Thr Ser Ser Trp Thr Phe Tyr Leu Gln Ala Asp Asp Gly Lys  
165 170 175

Ile Val Ile Phe Xaa Ser Lys Pro Arg Asn Pro Arg Tyr Ala Pro His  
180 185 190

Leu Glu Pro Gly Ala Leu Pro Asn Leu Xaa Xaa Xaa Ser Leu Ser Lys  
195 200 205

Met Ser Xaa Xaa Ser Xaa Met Arg Asn Ser Gln Ala His Arg Asn Phe  
210 215 220

Leu Glu Asp Gly Glu Ser Asp Gly Phe Leu Arg Cys Leu Ser Leu Asn  
225 230 235 240

Ser Gly Trp Ile Leu Thr Thr Thr Leu Val Leu Ser Val Met Val Leu  
245 250 255

Leu Trp Ile Cys Cys Ala Thr Cys Cys Tyr Thr Leu Leu Asp Ala Val  
260 265 270

Xaa

<210> 477  
 <211> 192  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (129)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 477  
 Met Met Val Leu Ser Leu Gly Ile Ile Leu Ala Ser Ala Ser Phe Ser  
           1                  5                  10                  15  
 Pro Asn Phe Thr Gln Val Thr Ser Thr Leu Leu Asn Ser Ala Tyr Pro  
                   20                  25                  30  
 Phe Ile Gly Pro Phe Phe Phe Ile Ile Ser Gly Ser Leu Ser Ile Ala  
                   35                  40                  45  
 Thr Glu Lys Arg Leu Thr Lys Leu Leu Val His Ser Ser Leu Val Gly  
           50                  55                  60  
 Ser Ile Leu Ser Ala Leu Ser Ala Leu Val Gly Phe Ile Ile Leu Ser  
           65                  70                  75                  80  
 Val Lys Gln Ala Thr Leu Asn Pro Ala Ser Leu Gln Cys Glu Leu Asp  
                   85                  90                  95  
 Lys Asn Asn Ile Pro Thr Arg Ser Tyr Val Ser Tyr Phe Tyr His Asp  
           100                  105                  110  
 Ser Leu Tyr Thr Thr Asp Cys Tyr Thr Ala Lys Ala Ser Leu Ala Gly  
           115                  120                  125  
 Xaa Leu Ser Leu Met Leu Ile Cys Thr Leu Leu Glu Phe Cys Leu Ala  
           130                  135                  140  
 Val Leu Thr Ala Val Leu Arg Trp Lys Gln Ala Tyr Ser Asp Phe Pro  
           145                  150                  155                  160  
 Gly Ser Val Leu Phe Leu Pro His Ser Tyr Ile Gly Asn Ser Gly Met  
           165                  170                  175  
 Ser Ser Lys Met Thr His Asp Cys Gly Tyr Glu Glu Leu Leu Thr Ser  
           180                  185                  190

<210> 478  
 <211> 234  
 <212> PRT

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&lt;213&gt; Homo sapiens

&lt;400&gt; 478

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Met Arg Lys Thr Arg Leu Trp Gly Leu Leu Trp Met Leu Phe Val Ser
 1             5             10             15

Glu Leu Arg Ala Ala Thr Lys Leu Thr Glu Glu Lys Tyr Glu Leu Lys
      20             25             30

Glu Gly Gln Thr Leu Asp Val Lys Cys Asp Tyr Thr Leu Glu Lys Phe
      35             40             45

Ala Ser Ser Gln Lys Ala Trp Gln Ile Ile Arg Asp Gly Glu Met Pro
      50             55             60

Lys Thr Leu Ala Cys Thr Glu Arg Pro Ser Lys Asn Ser His Pro Val
      65             70             75             80

Gln Val Gly Arg Ile Ile Leu Glu Asp Tyr His Asp His Gly Leu Leu
      85             90             95

Arg Val Arg Met Val Asn Leu Gln Val Glu Asp Ser Gly Leu Tyr Gln
      100            105            110

Cys Val Ile Tyr Gln Pro Pro Lys Glu Pro His Met Leu Phe Asp Arg
      115            120            125

Ile Arg Leu Val Val Thr Lys Gly Phe Ser Gly Thr Pro Gly Ser Asn
      130            135            140

Glu Asn Ser Thr Gln Asn Val Tyr Lys Ile Pro Pro Thr Thr Thr Lys
      145            150            155            160

Ala Leu Cys Pro Leu Tyr Thr Ser Pro Arg Thr Val Thr Gln Ala Pro
      165            170            175

Pro Lys Ser Thr Ala Asp Val Ser Thr Pro Asp Ser Glu Ile Asn Leu
      180            185            190

Thr Asn Val Thr Asp Ile Ile Arg Val Pro Val Phe Asn Ile Val Ile
      195            200            205

Leu Leu Ala Gly Gly Phe Leu Ser Lys Ser Leu Val Phe Ser Val Leu
      210            215            220

Phe Ala Val Thr Leu Arg Ser Phe Val Pro
      225            230

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&lt;210&gt; 479

&lt;211&gt; 105

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (105)

&lt;223&gt; Xaa equals stop translation

00002171-001001

&lt;400&gt; 479

Met Leu His Ile Leu Pro Leu Lys Ser Tyr Asp Phe Pro His Phe Ser  
 1 5 10 15

Leu Met Gly Arg Tyr Arg Cys Ala Ser Leu Leu Phe Cys Phe Leu Leu  
 20 25 30

Leu Phe Phe Phe Phe Cys Ser Val Leu Trp Thr Phe Ser Asp Met His  
 35 40 45

Arg Ser Gly Glu Asp Gly Pro Trp Thr Pro Cys Val His His Leu Ala  
 50 55 60

Ala Ser Leu Ile Ser Tyr Gly Gln Pro Gly Phe Ile Cys Ile Ser Leu  
 65 70 75 80

Phe Ser Pro Val Leu Phe Ile Glu Asn Pro Arg His Tyr Ala Asn Ala  
 85 90 95

Thr Val Thr Thr Leu Gly Asp Trp Xaa  
 100 105

&lt;210&gt; 480

&lt;211&gt; 32

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 480

Met Val Phe Leu Lys Tyr Arg Phe Leu Phe Phe Leu Val Phe Leu Ala  
 1 5 10 15

Asn Cys Ile Tyr Ser Leu His Tyr Lys Pro Ser Leu Met Tyr Pro Lys  
 20 25 30

&lt;210&gt; 481

&lt;211&gt; 571

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (556)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (571)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 481

Met Ala Leu Ser Arg Gly Leu Pro Arg Glu Leu Ala Glu Ala Val Ala  
 1 5 10 15

Gly	Gly	Arg	Val	Leu	Val	Val	Gly	Gly	Ile	Gly	Cys	Glu	Leu		
			20									30			
Leu	Lys	Asn	Leu	Val	Leu	Thr	Gly	Phe	Ser	His	Ile	Asp	Leu	Ile	Asp
			35				40					45			
Leu	Asp	Thr	Ile	Asp	Val	Ser	Asn	Leu	Asn	Arg	Gln	Phe	Leu	Phe	Gln
			50				55				60				
Lys	Lys	His	Val	Gly	Arg	Ser	Lys	Ala	Gln	Val	Ala	Lys	Glu	Ser	Val
					70					75					80
Leu	Gln	Phe	Tyr	Pro	Lys	Ala	Asn	Ile	Val	Ala	Tyr	His	Asp	Ser	Ile
					85				90					95	
Met	Asn	Pro	Asp	Tyr	Asn	Val	Glu	Phe	Phe	Arg	Gln	Phe	Ile	Leu	Val
								105					110		
Met	Asn	Ala	Leu	Asp	Asn	Arg	Ala	Ala	Arg	Asn	His	Val	Asn	Arg	Met
							120					125			
Cys	Leu	Ala	Ala	Asp	Val	Pro	Leu	Ile	Glu	Ser	Gly	Thr	Ala	Gly	Tyr
							135					140			
Leu	Gly	Gln	Val	Thr	Thr	Ile	Lys	Lys	Gly	Val	Thr	Glu	Cys	Tyr	Glu
						150					155				160
Cys	His	Pro	Lys	Pro	Thr	Gln	Arg	Thr	Phe	Pro	Gly	Cys	Thr	Ile	Arg
						165				170				175	
Asn	Thr	Pro	Ser	Glu	Pro	Ile	His	Cys	Ile	Val	Trp	Ala	Lys	Tyr	Leu
								185					190		
Phe	Asn	Gln	Leu	Phe	Gly	Glu	Glu	Asp	Ala	Asp	Gln	Glu	Val	Ser	Pro
								200				205			
Asp	Arg	Ala	Asp	Pro	Glu	Ala	Ala	Trp	Glu	Pro	Thr	Glu	Ala	Glu	Ala
							215					220			
Arg	Ala	Arg	Ala	Ser	Asn	Glu	Asp	Gly	Asp	Ile	Lys	Arg	Ile	Ser	Thr
						230				235					240
Lys	Glu	Trp	Ala	Lys	Ser	Thr	Gly	Tyr	Asp	Pro	Val	Lys	Leu	Phe	Thr
						245				250				255	
Lys	Leu	Phe	Lys	Asp	Asp	Ile	Arg	Tyr	Leu	Leu	Thr	Met	Asp	Lys	Leu
						260			265				270		
Trp	Arg	Lys	Arg	Lys	Pro	Pro	Val	Pro	Leu	Asp	Trp	Ala	Glu	Val	Gln
							280					285			
Ser	Gln	Gly	Glu	Glu	Thr	Asn	Ala	Ser	Asp	Gln	Gln	Asn	Glu	Pro	Gln
						290					300				
Leu	Gly	Leu	Lys	Asp	Gln	Gln	Val	Leu	Asp	Val	Lys	Ser	Tyr	Ala	Arg
						310				315					320

Leu Phe Ser Lys Ser Ile Glu Thr Leu Arg Val His Leu Ala Glu Lys  
 325 330 335  
 Gly Asp Gly Ala Glu Leu Ile Trp Asp Lys Asp Asp Pro Ser Ala Met  
 340 345 350  
 Asp Phe Val Thr Ser Ala Ala Asn Leu Arg Met His Ile Phe Ser Met  
 355 360 365  
 Asn Met Lys Ser Arg Phe Asp Ile Lys Ser Met Ala Gly Asn Ile Ile  
 370 375 380  
 Pro Ala Ile Ala Thr Thr Asn Ala Val Ile Ala Gly Leu Ile Val Leu  
 385 390 395 400  
 Glu Gly Leu Lys Ile Leu Ser Gly Lys Ile Asp Gln Cys Arg Thr Ile  
 405 410 415  
 Phe Leu Asn Lys Gln Pro Asn Pro Arg Lys Lys Leu Leu Val Pro Cys  
 420 425 430  
 Ala Leu Asp Pro Pro Asn Pro Asn Cys Tyr Val Cys Ala Ser Lys Pro  
 435 440 445  
 Glu Val Thr Val Arg Leu Asn Val His Lys Val Thr Val Leu Thr Leu  
 450 455 460  
 Gln Asp Lys Ile Val Lys Glu Lys Phe Ala Met Val Ala Pro Asp Val  
 465 470 475 480  
 Gln Ile Glu Asp Gly Lys Gly Thr Ile Leu Ile Ser Ser Glu Glu Gly  
 485 490 495  
 Glu Thr Glu Ala Asn Asn His Lys Lys Leu Ser Glu Phe Gly Ile Arg  
 500 505 510  
 Asn Gly Ser Arg Leu Gln Ala Asp Asp Phe Leu Gln Asp Tyr Thr Leu  
 515 520 525  
 Leu Ile Asn Ile Leu His Ser Glu Asp Leu Gly Lys Asp Val Glu Phe  
 530 535 540  
 Glu Val Val Gly Asp Ala Pro Glu Lys Val Gly Xaa Lys Gln Ala Glu  
 545 550 555 560  
 Asp Ala Ala Lys Ser Ile Thr Asn Gly Gln Xaa  
 565 570

&lt;210&gt; 482

&lt;211&gt; 312

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (312)

&lt;223&gt; Xaa equals stop translation

00002171.061801



<400> 482  
 Met Gln Val Val Thr Cys Leu Thr Arg Asp Ser Tyr Leu Thr His Cys  
 1 5 10 15  
 Phe Leu Gln His Leu Met Val Val Leu Ser Ser Leu Glu Arg Thr Pro  
 20 25 30  
 Ser Pro Glu Pro Val Asp Lys Asp Phe Tyr Ser Glu Phe Gly Asn Lys  
 35 40 45  
 Thr Thr Gly Lys Met Glu Asn Tyr Glu Leu Ile His Ser Ser Arg Val  
 50 55 60  
 Lys Phe Thr Tyr Pro Ser Glu Glu Glu Ile Gly Asp Leu Thr Phe Thr  
 65 70 75 80  
 Val Ala Gln Lys Met Ala Glu Pro Glu Lys Ala Pro Ala Leu Ser Ile  
 85 90 95  
 Leu Leu Tyr Val Gln Ala Phe Gln Val Gly Met Pro Pro Pro Gly Cys  
 100 105 110  
 Cys Arg Gly Pro Leu Arg Pro Lys Thr Leu Leu Leu Thr Ser Ser Glu  
 115 120 125  
 Ile Phe Leu Leu Asp Glu Asp Cys Val His Tyr Pro Leu Pro Glu Phe  
 130 135 140  
 Ala Lys Glu Pro Pro Gln Arg Asp Arg Tyr Arg Leu Asp Asp Gly Arg  
 145 150 155 160  
 Arg Val Arg Asp Leu Asp Arg Val Leu Met Gly Tyr Gln Thr Tyr Pro  
 165 170 175  
 Gln Pro Ser Pro Ser Ser Ser Met Thr Cys Lys Val Met Thr Ser Trp  
 180 185 190  
 Ala Val Ser Pro Trp Thr Thr Leu Gly Arg Cys Gln Val Ala Arg Leu  
 195 200 205  
 Glu Pro Ala Arg Ala Val Lys Ser Ser Gly Arg Cys Leu Ser Pro Val  
 210 215 220  
 Leu Arg Ala Glu Arg Ser Ser Ser Arg Cys Trp Leu Ala Ser Gly Arg  
 225 230 235 240  
 Pro Cys Val Ala Val Ser Cys Leu Ser Ser Pro Ala Ser Pro Gly  
 245 250 255  
 His Ser Gln Pro Val Val Ser Ser Leu Thr Pro Thr Gly Ala Gly Gln  
 260 265 270  
 Gln Ala Phe Val Phe Ser Lys Asn Val Leu Ser Ser Leu Trp Tyr Leu  
 275 280 285  
 Asn Leu Thr Val Leu Ala Glu Asn Val Asn Met Cys Val Cys Cys Val  
 290 295 300

0000011-001001  
 0000011-001001

Asn Ser Phe Ser Cys Trp Glu Xaa  
305 310

<210> 483  
<211> 329  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (329)  
<223> Xaa equals stop translation

<400> 483  
Met Ala Gln His His Leu Trp Ile Leu Leu Cys Leu Gln Thr Trp  
1 5 10 15  
Pro Glu Ala Ala Gly Lys Asp Ser Glu Ile Phe Thr Val Asn Gly Ile  
20 25 30  
Leu Gly Glu Ser Val Thr Phe Pro Val Asn Ile Gln Glu Pro Arg Gln  
35 40 45  
Val Lys Ile Ile Ala Trp Thr Ser Lys Thr Ser Val Ala Tyr Val Thr  
50 55 60  
Pro Gly Asp Ser Glu Thr Ala Pro Val Val Thr Val Thr His Arg Asn  
65 70 75 80  
Tyr Tyr Glu Arg Ile His Ala Leu Gly Pro Asn Tyr Asn Leu Val Ile  
85 90 95  
Ser Asp Leu Arg Met Glu Asp Ala Gly Asp Tyr Lys Ala Asp Ile Asn  
100 105 110  
Thr Gln Ala Asp Pro Tyr Thr Thr Thr Lys Arg Tyr Asn Leu Gln Ile  
115 120 125  
Tyr Arg Arg Leu Gly Lys Pro Lys Ile Thr Gln Ser Leu Met Ala Ser  
130 135 140  
Val Asn Ser Thr Cys Asn Val Thr Leu Thr Cys Ser Val Glu Lys Glu  
145 150 155 160  
Glu Lys Asn Val Thr Tyr Asn Trp Ser Pro Leu Gly Glu Glu Gly Asn  
165 170 175  
Val Leu Gln Ile Phe Gln Thr Pro Glu Asp Gln Glu Leu Thr Tyr Thr  
180 185 190  
Cys Thr Ala Gln Asn Pro Val Ser Asn Asn Ser Asp Ser Ile Ser Ala  
195 200 205  
Arg Gln Leu Cys Ala Asp Ile Ala Met Gly Phe Arg Thr His His Thr  
210 215 220

00002171-001001

Gly Leu Leu Ser Val Leu Ala Met Phe Phe Leu Leu Val Leu Ile Leu  
 225 230 235 240  
 Ser Ser Val Phe Leu Phe Arg Leu Phe Lys Arg Arg Gln Asp Ala Ala  
 245 250 255  
 Ser Lys Lys Thr Ile Tyr Thr Tyr Ile Met Ala Ser Arg Asn Thr Gln  
 260 265 270  
 Pro Ala Glu Ser Arg Ile Tyr Asp Glu Ile Leu Gln Ser Lys Val Leu  
 275 280 285  
 Pro Ser Lys Glu Glu Pro Val Asn Thr Val Tyr Ser Glu Val Gln Phe  
 290 295 300  
 Ala Asp Lys Met Gly Lys Ala Ser Thr Gln Asp Ser Lys Pro Pro Gly  
 305 310 315 320  
 Thr Ser Ser Tyr Glu Ile Val Ile Xaa  
 325

<210> 484  
 <211> 178  
 <212> PRT  
 <213> Homo sapiens  
 <220>  
 <221> SITE  
 <222> (178)  
 <223> Xaa equals stop translation

<400> 484  
 Met Lys Leu Gln Cys Val Ser Leu Trp Leu Leu Gly Thr Ile Leu Ile  
 1 5 10 15  
 Leu Cys Ser Val Asp Asn His Gly Leu Arg Arg Cys Leu Ile Ser Thr  
 20 25 30  
 Asp Met His His Ile Glu Glu Ser Phe Gln Glu Ile Lys Arg Ala Ile  
 35 40 45  
 Gln Ala Lys Asp Thr Phe Pro Asn Val Thr Ile Leu Ser Thr Leu Glu  
 50 55 60  
 Thr Leu Gln Ile Ile Lys Pro Leu Asp Val Cys Cys Val Thr Lys Asn  
 65 70 75 80  
 Leu Leu Ala Phe Tyr Val Asp Arg Val Phe Lys Asp His Gln Glu Pro  
 85 90 95  
 Asn Pro Lys Ile Leu Arg Lys Ile Ser Ser Ile Ala Asn Ser Phe Leu  
 100 105 110  
 Tyr Met Gln Lys Thr Leu Arg Gln Cys Gln Glu Gln Arg Gln Cys His  
 115 120 125  
 Cys Arg Gln Glu Ala Thr Asn Ala Thr Arg Val Ile His Asp Asn Tyr

05033171-063801

130 135 140

Asp Gln Leu Glu Val His Ala Ala Ala Ile Lys Ser Leu Gly Glu Leu  
 145 150 155 160

Asp Val Phe Leu Ala Trp Ile Asn Lys Asn His Glu Val Met Ser Ser  
 165 170 175

Ala Xaa

<210> 485  
 <211> 238  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (11)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (14)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (22)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (63)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (64)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (66)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 485  
 Met Gly Arg Pro Leu Leu Leu Pro Leu Leu Xaa Leu Leu Xaa Pro Pro  
 1 5 10 15

Ala Phe Leu Gln Pro Xaa Gly Ser Thr Gly Ser Gly Pro Ser Tyr Leu  
 20 25 30

Tyr Gly Val Thr Gln Pro Lys His Leu Ser Ala Ser Met Gly Gly Ser  
 35 40 45

Val Glu Ile Pro Phe Ser Phe Tyr Tyr Pro Trp Glu Leu Ala Xaa Xaa

00001-00001



<213> Homo sapiens

<400> 487

Met Pro Gly Leu Ser Leu Ile Leu Thr Val Thr Leu Leu Ala Val Ser  
1 5 10 15

Asp Ser Ala Ala Thr Cys Ile Val Ala Lys Gly  
20 25

<210> 488

<211> 339

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (142)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (330)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (335)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (336)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (339)

<223> Xaa equals stop translation

<400> 488

Met Ser Gly Pro Asp Val Glu Thr Pro Ser Ala Ile Gln Ile Cys Arg  
1 5 10 15

Ile Met Arg Pro Asp Asp Ala Asn Val Ala Gly Asn Val His Gly Gly  
20 25 30

Thr Ile Leu Lys Met Ile Glu Glu Ala Gly Ala Ile Ile Ser Thr Arg  
35 40 45

His Cys Asn Ser Gln Asn Gly Glu Arg Cys Val Ala Ala Leu Ala Arg  
50 55 60

Val Glu Arg Thr Asp Phe Leu Ser Pro Met Cys Ile Gly Glu Val Ala  
65 70 75 80

His Val Ser Ala Glu Ile Thr Tyr Thr Ser Lys His Ser Val Glu Val  
85 90 95

03682171-061801

Gln Val Asn Val Met Ser Glu Asn Ile Leu Thr Gly Ala Lys Lys Leu  
 100 105 110  
 Thr Asn Lys Ala Thr Leu Trp Tyr Val Pro Leu Ser Leu Lys Asn Val  
 115 120 125  
 Asp Lys Val Leu Glu Val Pro Pro Val Val Tyr Ser Arg Xaa Glu Gln  
 130 135 140  
 Glu Glu Glu Gly Arg Lys Arg Tyr Glu Ala Gln Lys Leu Glu Arg Met  
 145 150 155 160  
 Glu Thr Lys Trp Arg Asn Gly Asp Ile Val Gln Pro Val Leu Asn Pro  
 165 170 175  
 Glu Pro Asn Thr Val Ser Tyr Ser Gln Ser Ser Leu Ile His Leu Val  
 180 185 190  
 Gly Pro Ser Asp Cys Thr Leu His Gly Phe Val His Gly Gly Val Thr  
 195 200 205  
 Met Lys Leu Met Asp Glu Val Ala Gly Ile Val Ala Ala Arg His Cys  
 210 215 220  
 Lys Thr Asn Ile Val Thr Ala Ser Val Asp Ala Ile Asn Phe His Asp  
 225 230 235 240  
 Lys Ile Arg Lys Gly Cys Val Ile Thr Ile Ser Gly Arg Met Thr Phe  
 245 250 255  
 Thr Ser Asn Lys Ser Met Glu Ile Glu Val Leu Val Asp Ala Asp Pro  
 260 265 270  
 Val Val Asp Ser Ser Gln Lys Arg Tyr Arg Ala Ala Ser Ala Phe Phe  
 275 280 285  
 Thr Tyr Val Ser Leu Ser Gln Glu Gly Arg Ser Leu Pro Val Pro Gln  
 290 295 300  
 Leu Val Pro Glu Thr Glu Asp Glu Lys Lys Arg Phe Glu Glu Gly Lys  
 305 310 315 320  
 Gly Arg Tyr Leu Gln Met Lys Ala Lys Xaa Gln Gly His Ala Xaa Xaa  
 325 330 335  
 Gln Pro Xaa

&lt;210&gt; 489

&lt;211&gt; 32

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 489

Met Leu Asn Ser Asn Ile Asn Asp Leu Leu Met Val Thr Tyr Leu Ala  
 1 5 10 15

000001.061801

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<400> 492
Met Gly Leu Arg Leu Ile Cys Leu Glu Leu Thr Met Val Lys Ala Leu
  1             5             10            15
Val Cys Glu Met Phe Leu Phe Phe Leu Met Thr Gln Lys Leu Ile Trp

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Ile Leu Gly Gly Pro Leu Leu Ile Arg Ala Ala Trp Tyr Thr Ala Gly  
210 215 220

Ile Val Gly Gly Leu Ser Thr Val Ala Met Cys Ala Pro Ser Glu Lys  
225 230 235 240

Phe Leu Asn Met Gly Ala Pro Leu Gly Val Gly Leu Gly Leu Val Phe  
245 250 255

Val Ser Ser Leu Gly Ser Met Phe Leu Pro Pro Thr Thr Val Ala Gly  
260 265 270

Ala Thr Leu Tyr Ser Val Ala Met Tyr Gly Gly Leu Val Leu Phe Ser  
275 280 285

Met Phe Leu Leu Tyr Asp Thr Gln Lys Val Ile Lys Arg Ala Glu Val  
290 295 300

Ser Pro Met Tyr Gly Val Gln Lys Tyr Asp Pro Ile Asn Ser Met Leu  
305 310 315 320

Ser Ile Tyr Met Asp Thr Leu Asn Ile Phe Met Arg Val Ala Thr Met  
325 330 335

Leu Ala Thr Gly Gly Asn Arg Lys Lys Xaa  
340 345

<210> 494

<211> 237

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (237)

<223> Xaa equals stop translation

<400> 494

Met Glu Glu Val Leu Leu Leu Gly Leu Lys Asp Arg Glu Gly Tyr Thr  
1 5 10 15

Ser Phe Trp Asn Asp Cys Ile Ser Ser Gly Leu Arg Gly Cys Met Leu  
20 25 30

Ile Glu Leu Ala Leu Arg Gly Arg Leu Gln Leu Glu Ala Cys Gly Met  
35 40 45

Arg Arg Lys Ser Leu Leu Thr Arg Lys Val Ile Cys Lys Ser Asp Ala  
50 55 60

Pro Thr Gly Asp Val Leu Leu Asp Glu Ala Leu Lys His Val Lys Glu  
65 70 75 80

Thr Gln Pro Pro Glu Thr Val Gln Asn Trp Ile Glu Leu Leu Ser Gly  
85 90 95

05032171-051801

Glu Thr Trp Asn Pro Leu Lys Leu His Tyr Gln Leu Arg Asn Val Arg  
100 105 110

Glu Arg Leu Ala Lys Asn Leu Val Glu Lys Gly Val Leu Thr Thr Glu  
115 120 125

Lys Gln Asn Phe Leu Leu Phe Asp Met Thr Thr His Pro Leu Thr Asn  
130 135 140

Asn Asn Ile Lys Gln Arg Leu Ile Lys Lys Val Gln Glu Ala Val Leu  
145 150 155 160

Asp Lys Trp Val Asn Asp Pro His Arg Met Asp Arg Arg Leu Leu Ala  
165 170 175

Leu Ile Tyr Leu Ala His Ala Ser Asp Val Leu Glu Asn Ala Phe Ala  
180 185 190

Pro Leu Leu Asp Glu Gln Tyr Asp Leu Ala Thr Lys Arg Val Arg Gln  
195 200 205

Leu Leu Asp Leu Asp Pro Glu Val Glu Cys Leu Lys Ala Asn Thr Asn  
210 215 220

Glu Val Leu Trp Ala Val Val Ala Ala Phe Thr Lys Xaa  
225 230 235

<210> 495

<211> 200

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (200)

<223> Xaa equals stop translation

<400> 495

Met Ala Gln Arg Met Val Trp Val Asp Leu Glu Met Thr Gly Leu Asp  
1 5 10 15

Ile Glu Lys Asp Gln Ile Ile Glu Met Ala Cys Leu Ile Thr Asp Ser  
20 25 30

Asp Leu Asn Ile Leu Ala Glu Gly Pro Asn Leu Ile Ile Lys Gln Pro  
35 40 45

Asp Glu Leu Leu Asp Ser Met Ser Asp Trp Cys Lys Glu His His Gly  
50 55 60

Lys Ser Gly Leu Thr Lys Ala Val Lys Glu Ser Thr Ile Thr Leu Gln  
65 70 75 80

Gln Ala Glu Tyr Glu Phe Leu Ser Phe Val Arg Gln Gln Thr Pro Pro  
85 90 95

Gly Leu Cys Pro Leu Ala Gly Asn Ser Val His Glu Asp Lys Lys Phe

0000211-001001

100	105	110
Leu Asp Lys Tyr Met Pro Gln Phe Met Lys His Leu His Tyr Arg Ile		
115	120	125
Ile Asp Val Ser Thr Val Lys Glu Leu Cys Arg Arg Trp Tyr Pro Glu		
130	135	140
Glu Tyr Glu Phe Ala Pro Lys Lys Ala Ala Ser His Arg Ala Leu Asp		
145	150	155
Asp Ile Ser Glu Ser Ile Lys Glu Leu Gln Phe Tyr Arg Asn Asn Ile		
165	170	175
Phe Lys Lys Lys Ile Asp Glu Lys Lys Arg Lys Ile Ile Glu Asn Gly		
180	185	190
Glu Asn Glu Lys Thr Val Ser Xaa		
195	200	

<210> 496  
 <211> 351  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (351)  
 <223> Xaa equals stop translation

<400> 496
Met Ala Thr Thr Ala Ala Pro Ala Gly Gly Ala Arg Asn Gly Ala Gly
1 5 10 15
Pro Glu Trp Gly Gly Phe Glu Glu Asn Ile Gln Gly Gly Gly Ser Ala
20 25 30
Val Ile Asp Met Glu Asn Met Asp Asp Thr Ser Gly Ser Ser Phe Glu
35 40 45
Asp Met Gly Glu Leu His Gln Arg Leu Arg Glu Glu Glu Val Asp Ala
50 55 60
Asp Ala Ala Asp Ala Ala Ala Glu Glu Glu Asp Gly Glu Phe Leu
65 70 75 80
Gly Met Lys Gly Phe Lys Gly Gln Leu Ser Arg Gln Val Ala Asp Gln
85 90 95
Met Trp Gln Ala Gly Lys Arg Gln Ala Ser Arg Ala Phe Ser Leu Tyr
100 105 110
Ala Asn Ile Asp Ile Leu Arg Pro Tyr Phe Asp Val Glu Pro Ala Gln
115 120 125
Val Arg Thr Gly Leu Leu Glu Ser Met Ile Pro Ile Lys Met Val Asn
130 135 140

09882171-061301

Phe Pro Gln Lys Ile Ala Gly Glu Leu Tyr Gly Pro Leu Met Leu Val  
 145 150 155 160  
 Phe Thr Leu Val Ala Ile Leu Leu His Gly Met Lys Thr Ser Asp Thr  
 165 170 175  
 Ile Ile Arg Glu Gly Thr Leu Met Gly Thr Ala Ile Gly Thr Cys Phe  
 180 185 190  
 Gly Tyr Trp Leu Gly Val Ser Ser Phe Ile Tyr Phe Leu Ala Tyr Leu  
 195 200 205  
 Cys Asn Ala Gln Ile Thr Met Leu Gln Met Leu Ala Leu Leu Gly Tyr  
 210 215 220  
 Gly Leu Phe Gly His Cys Ile Val Leu Phe Ile Thr Tyr Asn Ile His  
 225 230 235 240  
 Leu His Ala Leu Phe Tyr Leu Phe Trp Leu Leu Val Gly Gly Leu Ser  
 245 250 255  
 Thr Leu Arg Met Val Ala Val Leu Val Ser Arg Thr Val Gly Pro Thr  
 260 265 270  
 Gln Arg Leu Leu Leu Cys Gly Thr Leu Ala Ala Leu His Met Leu Phe  
 275 280 285  
 Leu Leu Tyr Leu His Phe Ala Tyr His Lys Val Val Glu Gly Ile Leu  
 290 295 300  
 Asp Thr Leu Glu Gly Pro Asn Ile Pro Pro Ile Gln Arg Val Pro Arg  
 305 310 315 320  
 Asp Ile Pro Ala Met Leu Pro Ala Ala Arg Leu Pro Thr Thr Val Leu  
 325 330 335  
 Asn Ala Thr Ala Lys Ala Val Ala Val Thr Leu Gln Ser His Xaa  
 340 345 350

&lt;210&gt; 497

&lt;211&gt; 265

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (265)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 497

Met Arg Gly Ser Arg Gly Gly Trp Ala Gly Glu Met Ala Ala Ser Gly  
 1 5 10 15

Glu Ser Gly Thr Ser Gly Gly Gly Gly Ser Thr Glu Glu Ala Phe Met  
 20 25 30

0000171-001001

Thr Phe Tyr Ser Glu Val Lys Gln Ile Glu Lys Arg Asp Ser Val Leu  
35 40 45

Thr Ser Lys Asn Gln Ile Glu Arg Leu Thr Arg Pro Gly Ser Ser Tyr  
50 55 60

Phe Asn Leu Asn Pro Phe Glu Val Leu Gln Ile Asp Pro Glu Val Thr  
65 70 75 80

Asp Glu Glu Ile Lys Lys Arg Phe Arg Gln Leu Ser Ile Leu Val His  
85 90 95

Pro Asp Lys Asn Gln Asp Asp Ala Asp Arg Ala Gln Lys Ala Phe Glu  
100 105 110

Ala Val Asp Lys Ala Tyr Lys Leu Leu Leu Asp Gln Glu Gln Lys Lys  
115 120 125

Arg Ala Leu Asp Val Ile Gln Ala Gly Lys Glu Tyr Val Glu His Thr  
130 135 140

Val Lys Glu Arg Lys Lys Gln Leu Lys Lys Glu Gly Lys Pro Thr Ile  
145 150 155 160

Val Glu Glu Asp Asp Pro Glu Leu Phe Lys Gln Ala Val Tyr Lys Gln  
165 170 175

Thr Met Lys Leu Phe Ala Glu Leu Glu Ile Lys Arg Lys Glu Arg Glu  
180 185 190

Ala Lys Glu Met His Glu Arg Lys Arg Gln Arg Glu Glu Glu Ile Glu  
195 200 205

Ala Gln Glu Lys Ala Lys Arg Glu Arg Glu Trp Gln Lys Asn Phe Glu  
210 215 220

Glu Ser Arg Asp Gly Arg Val Asp Ser Trp Arg Asn Phe Gln Ala Asn  
225 230 235 240

Thr Lys Gly Lys Lys Glu Lys Lys Asn Arg Thr Phe Leu Arg Pro Pro  
245 250 255

Lys Val Lys Met Glu Gln Arg Glu Xaa  
260 265

<210> 498

<211> 25

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 498

Asp Ser Met Pro Thr Cys Pro Leu Xaa Ala Ser Leu Glu Cys Gly Pro

0000171-001001

1 5 10 15

Leu Leu Pro Val Arg Leu Cys Cys Leu  
20 25

<210> 499  
<211> 159  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (159)  
<223> Xaa equals stop translation

<400> 499  
Met Asn Glu Tyr Arg Val Pro Glu Leu Asn Val Gln Asn Gly Val Leu  
1 5 10 15

Lys Ser Leu Ser Phe Leu Phe Glu Tyr Ile Gly Glu Met Gly Lys Asp  
20 25 30

Tyr Ile Tyr Ala Val Thr Pro Leu Leu Glu Asp Ala Leu Met Asp Arg  
35 40 45

Asp Leu Val His Arg Gln Thr Ala Ser Ala Val Val Gln His Met Ser  
50 55 60

Leu Gly Val Tyr Gly Phe Gly Cys Glu Asp Ser Leu Asn His Leu Leu  
65 70 75 80

Asn Tyr Val Trp Pro Asn Val Phe Glu Thr Ser Pro His Val Ile Gln  
85 90 95

Ala Val Met Gly Ala Leu Glu Gly Leu Arg Val Ala Ile Gly Pro Cys  
100 105 110

Arg Met Leu Gln Tyr Cys Leu Gln Gly Leu Phe His Pro Ala Arg Lys  
115 120 125

Val Arg Asp Val Tyr Trp Lys Ile Tyr Asn Ser Ile Tyr Ile Gly Ser  
130 135 140

Gln Asp Ala Leu Ile Ala His Tyr Pro Arg Ile Tyr Gln Arg Xaa  
145 150 155

<210> 500  
<211> 279  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (238)  
<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals stop translation

Met Ile Gln Lys Pro Trp Xaa



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<210> 501
<211> 193
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (143)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 501  
Met Ile Arg Cys Gly Leu Ala Cys Glu Arg Cys Arg Trp Ile Leu Pro  
1 5 10 15

Leu Leu Leu Leu Ser Ala Ile Ala Phe Asp Ile Ile Ala Leu Ala Gly  
20 25 30

Arg Gly Trp Leu Gln Ser Ser Asp His Gly Gln Thr Ser Ser Leu Trp  
35 40 45

Trp Lys Cys Ser Gln Glu Gly Gly Gly Ser Gly Ser Tyr Glu Glu Gly  
50 55 60

Cys Gln Ser Leu Met Glu Tyr Ala Trp Gly Arg Ala Ala Ala Ala Met  
65 70 75 80

Leu Phe Cys Gly Phe Ile Ile Leu Val Ile Cys Phe Ile Leu Ser Phe  
85 90 95

Phe Ala Leu Cys Gly Pro Gln Met Leu Val Phe Leu Arg Val Ile Gly  
100 105 110

Gly Leu Leu Ala Leu Ala Ala Val Phe Gln Ile Ile Ser Leu Val Ile  
115 120 125

Tyr Pro Val Lys Tyr Thr Gln Thr Phe Thr Leu His Ala Asn Xaa Ala  
130 135 140

Val Thr Tyr Ile Tyr Asn Trp Ala Tyr Gly Phe Gly Trp Ala Ala Thr  
145 150 155 160

Ile Ile Leu Ile Gly Cys Ala Phe Phe Phe Cys Cys Leu Pro Asn Tyr  
165 170 175

Glu Asp Asp Leu Leu Gly Asn Ala Lys Pro Arg Tyr Phe Tyr Thr Ser  
180 185 190

A1a

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<210> 502
<211> 205
<212> PRT
<213> Homo sapiens
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400> 502
Met Ala Ala Gly Asp Gln Val Phe Ser Gly Ala Gly His Val Xaa Glu 1 5 10 15
His Val Ala Gly Gly Arg His Ala Trp Leu Leu Thr Trp Gln Ser Ala 20 25 30
Cys Pro Ala Asn Arg Leu Ser Leu Val Pro Leu Val Pro Ser Ala Ser 35 40 45
Met Thr Arg Leu Met Arg Xaa Arg Thr Ala Ser Gly Ser Ser Val Ile 50 55 60
Leu Trp Met Ala Pro Ala Ala Ala Pro Thr Pro Ala Arg Ala Pro Glu 65 70 75 80
Ala Ala Pro Thr Pro Ala Arg Ala Pro Ala Ala Arg Thr Pro Ala 85 90 95
Arg Gly Pro Thr Trp Thr Ser Pro Pro Thr Arg Val Leu Leu Gly Thr 100 105 110
Xaa Pro Gly Pro Ser Pro Trp Arg Ser Pro Ala Arg Arg Pro Ala Gln 115 120 125
Leu Pro Pro Pro Asp Ser Asp Leu Cys Ser Gly Pro Leu Leu Pro Gly 130 135 140
Pro Phe Ser Pro Pro Ala Cys His Thr Ala Pro Asn Ser Val Leu Ile 145 150 155 160
Gln Ser Leu Phe Cys Lys Ser Glu Leu Trp Trp Arg Gln Met Arg Ser 165 170 175
Ile Thr Trp Val Pro Ser Pro Lys Ala Gly Trp Arg Trp Thr Lys Gly 180 185 190

Arg Lys Gln Ala Ser Pro His Arg Ile Leu Phe His Xaa  
 195 200 205

<210> 503  
 <211> 147  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (147)  
 <223> Xaa equals stop translation

<400> 503  
 Met Ala Leu Thr Leu Leu Pro Ser Val Ser Arg Leu Pro Gly Glu Arg  
 1 5 10 15  
 Met Ala Ala Ser Gly Leu Pro Tyr Val Leu His His Lys Ser Ser Leu  
 20 25 30  
 Met Lys Val Ile Phe Phe Pro Tyr Pro Val Leu Pro Leu Pro Ala Pro  
 35 40 45  
 Asn Gly Thr Trp Val Pro Arg Leu Val Leu Gly Leu Gly Ser Gly Asp  
 50 55 60  
 Gln Val His Tyr Leu Pro Ile Ser Ser Ser Ile Val Asn Tyr Gly Thr  
 65 70 75 80  
 Ser Val Ser Gly Lys Ser Trp Val Phe Leu Val Tyr Pro Leu His Pro  
 85 90 95  
 Thr Pro Thr Trp Ser Thr Arg Cys Phe Gln Val Trp Asp Leu Leu Ser  
 100 105 110  
 Val Glu Leu Pro Asp Lys Gly Glu Gly Asn Thr Arg Arg Ala Ser Gly  
 115 120 125  
 Val Pro Gly Leu Ser Gln Leu Pro Thr Ser His Lys Pro Ile Lys Gln  
 130 135 140  
 Glu Tyr Xaa  
 145

<210> 504  
 <211> 64  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (64)  
 <223> Xaa equals stop translation

<400> 504  
 Met Val Trp Val Leu Trp Ser Ala Pro Ser Leu Ala Pro Pro Trp Val

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<210> 507  
 <211> 22  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (11)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 507  
 Met Phe Leu Ile Phe Val Tyr Phe Leu Lys Xaa Leu Phe Ser Ser Ser  
 1 5 10 15  
 Leu Pro Phe Leu Trp Leu  
 20

<210> 508  
 <211> 33  
 <212> PRT  
 <213> Homo sapiens

<400> 508  
 Arg Gly Gly Leu Cys Pro Leu Leu Val Pro Gly Pro Leu Ala Arg Gln  
 1 5 10 15  
 Glu Pro Ser Pro Ser Leu Gln Gly Cys Ser Glu Ser Pro Val Gly Met  
 20 25 30

Asp

<210> 509  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

<400> 509  
 Met Gln Phe Leu Leu Thr Ala Phe Leu Leu Val Pro Leu Leu Ala Leu  
 1 5 10 15  
 Cys Asp Val Pro Ile Ser Leu Gly Phe Ser Pro Ser  
 20 25

<210> 510  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 510  
 Pro Gly Lys Pro Gln Ala Cys Pro Glu Leu Thr Ser Val Leu Pro  
 1 5 10 15

<210> 511

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<211> 27  
 <212> PRT  
 <213> Homo sapiens

<400> 511  
 Met Thr Phe Thr Leu Gly Asp Ser Gln Val Leu Leu Ile Asn Leu Phe  
           1                          5                          10                          15  
 Pro Ser Met Pro Ser Gly Ser Cys Ala Arg Pro  
                           20                          25

<210> 512  
 <211> 19  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (5)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (19)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 512  
 Asn Lys Ser Leu Xaa Ser Cys Leu Phe Val Leu His Phe Val Leu His  
           1                          5                          10                          15  
 Cys Xaa Phe

<210> 513  
 <211> 29  
 <212> PRT  
 <213> Homo sapiens

<400> 513  
 Met Glu Lys Thr His Arg Leu Arg Ile Arg Asn Pro Cys Leu Gln Phe  
           1                          5                          10                          15  
 Ser Ile Leu Asn Leu Phe Leu Leu Lys Met Ile Val Ser  
                           20                          25

<210> 514  
 <211> 75  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (75)  
 <223> Xaa equals stop translation

00120-1212000

<400> 514  
 Met Val Asp Ile Ser Lys Met His Met Ile Leu Tyr Asp Leu Gln Gln  
           1                  5                  10                  15  
 Asn Leu Ser Ser Ser His Arg Ala Leu Glu Lys Gln Ile Asp Thr Leu  
                   20                  25                  30  
 Ala Gly Lys Leu Asp Ala Leu Thr Glu Leu Leu Ser Thr Ala Leu Gly  
                   35                  40                  45  
 Pro Ser Ser Phe Gln Asn Pro Ala Ser Ser Pro Ser Ser Trp Thr His  
           50                  55                  60  
 Glu Glu Glu Pro Gly Tyr Phe Pro Gln Tyr Xaa  
           65                  70                  75

<210> 515  
 <211> 10  
 <212> PRT  
 <213> Homo sapiens

<400> 515  
 Leu Pro Leu Ala Glu Leu Lys Asn Trp Val  
           1                  5                  10

<210> 516  
 <211> 207  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (122)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (207)  
 <223> Xaa equals stop translation

<400> 516  
 Met Leu Trp Phe Gly Gly Cys Ser Ala Val Asn Ala Thr Gly His Leu  
           1                  5                  10                  15  
 Ser Asp Thr Leu Trp Leu Ile Pro Ile Thr Phe Leu Thr Ile Gly Tyr  
                   20                  25                  30  
 Gly Asp Val Val Pro Gly Thr Met Trp Gly Lys Ile Val Cys Leu Cys  
                   35                  40                  45  
 Thr Gly Val Met Gly Val Cys Cys Thr Ala Leu Leu Val Ala Val Val  
           50                  55                  60  
 Ala Arg Lys Leu Glu Phe Asn Lys Ala Glu Lys His Val His Asn Phe  
           65                  70                  75                  80

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Met Met Asp Ile Gln Tyr Thr Lys Glu Met Lys Glu Ser Ala Ala Arg  
85 90 95

Val Leu Gln Glu Ala Trp Met Phe Tyr Lys His Thr Arg Arg Lys Glu  
100 105 110

Ser His Ala Ala Arg Arg His Gln Arg Xaa Leu Leu Ala Ala Ile Asn  
115 120 125

Ala Phe Arg Gln Val Arg Leu Lys His Arg Lys Leu Arg Glu Gln Val  
130 135 140

Asn Ser Met Val Asp Ile Ser Lys Met His Met Ile Leu Tyr Asp Leu  
145 150 155 160

Gln Gln Asn Leu Ser Ser Ser His Arg Ala Leu Glu Lys Gln Ile Asp  
165 170 175

Thr Leu Ala Gly Lys Leu Asp Ala Leu Thr Glu Leu Leu Ser Thr Ala  
180 185 190

Leu Gly Pro Arg Gln Leu Pro Glu Pro Ser Gln Gln Ser Lys Xaa  
195 200 205

<210> 517

<211> 36

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 517

Met Trp Arg Cys Arg Gly Lys Leu Ser Phe Pro Leu Phe Ala Val Val  
1 5 10 15

Ile Val Ser Cys Arg Lys Asp Gly Pro Asp Ala Ala Ala Ala Pro Ala  
20 25 30

Val Xaa Lys Lys  
35

<210> 518

<211> 19

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 518

Met Ala Leu Val Ala Leu Phe Thr Gln Leu Met Arg Xaa Leu Gly Arg

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20

25

30

Cys

&lt;210&gt; 523

&lt;211&gt; 47

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (17)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (28)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 523

Leu	Asn	Glu	Ser	Tyr	Val	Ser	Arg	Ala	Gly	Gly	Trp	Phe	Ser	Met	Phe
1					5				10					15	

Xaa	Leu	Ile	Phe	Phe	Leu	Leu	Ala	Leu	Gly	Ser	Xaa	Leu	Cys	Leu	Leu
			20						25				30		

Leu	Cys	Leu	Pro	Ser	Phe	Asn	Lys	Thr	Arg	Arg	Lys	Gln	Lys	Pro
		35					40					45		

&lt;210&gt; 524

&lt;211&gt; 43

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 524

Ser	Ser	Lys	Thr	Pro	Leu	Pro	Ser	Glu	Arg	Arg	Trp	Ile	Ser	Gly	Ser
1					5				10					15	

Ser	Leu	Met	Ala	Pro	Arg	Pro	Trp	Leu	Leu	Gly	Ile	Ala	Leu	Leu	Gly
			20					25					30		

Leu	Trp	Ala	Leu	Glu	Pro	Ala	Leu	Gly	His	Trp
			35				40			

&lt;210&gt; 525

&lt;211&gt; 3

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 525

Leu	Asn	Trp
1		

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<210> 526  
 <211> 174  
 <212> PRT  
 <213> Homo sapiens

<400> 526  
 Phe Ala Phe Cys Ala Glu Leu Met Ile Gln Asn Trp Thr Leu Gly Ala  
 1 5 10 15  
 Val Asp Ser Gln Met Asp Asp Met Asp Met Asp Leu Asp Lys Glu Phe  
 20 25 30  
 Leu Gln Asp Leu Lys Glu Leu Lys Val Leu Val Ala Asp Lys Asp Leu  
 35 40 45  
 Leu Asp Leu His Lys Ser Leu Val Cys Thr Ala Leu Arg Gly Lys Leu  
 50 55 60  
 Gly Val Phe Ser Glu Met Glu Ala Asn Phe Lys Asn Leu Ser Arg Gly  
 65 70 75 80  
 Leu Val Asn Val Ala Ala Lys Leu Thr His Asn Lys Asp Val Arg Asp  
 85 90 95  
 Leu Phe Val Asp Leu Val Glu Lys Phe Val Glu Pro Cys Arg Ser Asp  
 100 105 110  
 His Trp Pro Leu Ser Asp Val Arg Phe Phe Leu Asn Gln Tyr Ser Ala  
 115 120 125  
 Ser Val His Ser Leu Asp Gly Phe Arg His Gln Ala Ser Gly Thr Ala  
 130 135 140  
 Thr Trp Ala Pro Ser Ala Ala Ala Ser Cys Ala Cys Ile Met Thr Glu  
 145 150 155 160  
 Val Pro Pro Asn Ala Pro Pro Thr Leu Thr Ile Lys Leu Leu  
 165 170

<210> 527  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<400> 527  
 Met Trp Lys Asn Leu Gly Ser Gly Ser Val Phe Val Thr Trp Phe Ser  
 1 5 10 15  
 Leu Val Met Ile Leu Ser Gly Ile Gly Pro Leu Gly Asp Ala Glu Asp  
 20 25 30  
 Ser Ile Ser Asp Val Ser His Arg Leu Arg Pro  
 35 40

<210> 528  
 <211> 13

00000171-001001



Met Pro Leu Pro Val Leu Leu Cys Leu Thr Leu Pro Met Pro Leu Pro  
 1 5 10 15

Ser Ala Thr Ala Arg Gly Gly Asn Arg Thr  
 20 25

<210> 533  
 <211> 58  
 <212> PRT  
 <213> Homo sapiens

<400> 533  
 Ser Ser Ile Pro Val Ser Ile Leu Ile Gly Met Lys Leu Ile Leu Tyr  
 1 5 10 15

Leu Leu Ile Thr Glu Ser Gly Ser His Glu Lys Lys Ser Phe Tyr Pro  
 20 25 30

Ser Phe Lys Tyr Met Phe Lys Ile Ile Ile Tyr Val Ser Ala Tyr Cys  
 35 40 45

Arg Thr Ala Leu Arg Ala Thr Val Ser His  
 50 55

<210> 534  
 <211> 19  
 <212> PRT  
 <213> Homo sapiens

<400> 534  
 Asn Arg Thr Leu Leu Phe Leu Ile Leu Phe Val Leu Phe Gly Leu Gly  
 1 5 10 15

Tyr Gly Phe

<210> 535  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens

<400> 535  
 Met Phe Leu Leu Val Leu Ser Val Phe Cys Asp Phe Met Cys Ser Ile  
 1 5 10 15

Ala Pro Arg Cys His Ala Leu Ser Leu Val Ser Leu Arg Ala Gln His  
 20 25 30

Leu Ser Leu Phe Ile Thr Cys His  
 35 40

<210> 536  
 <211> 57  
 <212> PRT

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